ATTACHMENT T

LANDFILL LEACHATE ANALYTICAL REPORTS, 2023

See associated files for attachment.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael M Frisko
Cape May County Municipal Utilities Auth
1523 U.S. Route 9 North
PO BOX 610
Cape May Court House, New Jersey 08210

Generated 4/16/2023 10:57:46 PM

JOB DESCRIPTION

Cape May County MUA - Quarterly Leachate
Quarterly Leachate Comp/Grab

JOB NUMBER

630-58566-1

Eurofins Environment Testing Philadelphia, LLC
213 Witmer Road
Horsham PA 19044-0962

RFP-14-23 ADDENDUM 1

See page two for job notes and contact information.

myEOL

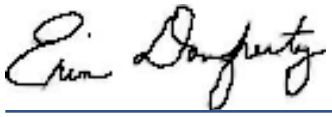
Eurofins Environment Testing Philadelphia, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Philadelphia, LLC Project Manager.

Authorization



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4/16/2023 10:57:46 PM

Authorized for release by
Erin Dougherty, Project Administrator
Erin.Dougherty@et.eurofinsus.com
(215)355-3900

Eurofins Environment Testing Philadelphia, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD,and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015
VL = field staff performs tests under NJ State certification #06005
WG = field staff performs tests under NJ State certification #PA001
H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

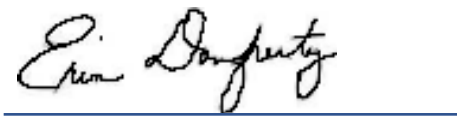
· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Job ID: 630-58566-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative
630-58566-1

Receipt
The samples were received on 4/4/2023 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions
A trip blank was not submitted for analysis with this sample shipment; and was not listed on the Chain of Custody (COC). This does not meet regulatory requirements.

GC/MS VOA
Method 624.1_PREC: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: LEACHATE GRAB (630-58566-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 335.4: The reference method requires samples to be preserved to a pH of >12. The following sample was received with insufficient preservation at a pH of 9: LEACHATE GRAB (630-58566-2).This does not meet regulatory requirements.

Method SM5210B_Calc: The method blank result associated with batch 410-363121 was higher than the method-required limit of 0.2 mg/L.

Method SM5210B_Calc: All the dilutions failed to deplete the method-required 2 mgO2/L for the following samples: SSLF23-04 LEACHATE COMPOSITE (630-58566-1). Only a "less than" result could be calculated from the least dilute preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-58566-1
Project/Site: Cape May County MUA - Quarterly Leachate

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-58566-1	SSLF23-04 LEACHATE COMPOSITE	Leachate	04/04/23 08:10	04/04/23 14:15
630-58566-2	LEACHATE GRAB	Leachate	04/04/23 08:10	04/04/23 14:15

Client Sample ID: SSLF23-04 LEACHATE COMPOSITE
Lab Sample ID: 630-58566-1

Date Collected: 04/04/23 08:10
Matrix: Leachate
Date Received: 04/04/23 14:15

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Cadmium	ND		5.0	1.0	ug/L		04/12/23 11:26	1	T8CQ

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	ND		0.20	0.079	ug/L		04/11/23 15:41	1	UEFS

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Biochemical Oxygen Demand	71	b	30	30	mg/L		04/05/23 19:12	1	DI9Q

Client Sample ID: LEACHATE GRAB
Lab Sample ID: 630-58566-2

Date Collected: 04/04/23 08:10
Matrix: Leachate
Date Received: 04/04/23 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
1,1,1-Trichloroethane	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
1,1,2,2-Tetrachloroethane	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
1,1,2-Trichloroethane	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
1,1-Dichloroethane	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
1,1-Dichloroethene	ND		20	6.0	ug/L		04/06/23 19:35	20	UJML
1,2-Dichloroethane	ND		20	6.0	ug/L		04/06/23 19:35	20	UJML
1,2-Dichloropropane	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Benzene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Bromodichloromethane	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Bromoform	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Bromomethane	ND		20	8.8	ug/L		04/06/23 19:35	20	UJML
Carbon tetrachloride	ND		20	8.4	ug/L		04/06/23 19:35	20	UJML
Chlorobenzene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Chloroethane	ND		20	8.8	ug/L		04/06/23 19:35	20	UJML
Chloroform	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Chloromethane	ND		20	13	ug/L		04/06/23 19:35	20	UJML
cis-1,2-Dichloroethene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
cis-1,3-Dichloropropene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Dibromochloromethane	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Ethylbenzene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Methylene Chloride	ND		20	6.0	ug/L		04/06/23 19:35	20	UJML
Toluene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Tetrachloroethene	ND		20	6.0	ug/L		04/06/23 19:35	20	UJML
trans-1,2-Dichloroethene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
trans-1,3-Dichloropropene	ND		20	2.0	ug/L		04/06/23 19:35	20	UJML
Trichloroethene	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Trichlorofluoromethane	ND		20	6.0	ug/L		04/06/23 19:35	20	UJML
Vinyl chloride	ND		20	6.0	ug/L		04/06/23 19:35	20	UJML
Xylenes, Total	ND		20	4.0	ug/L		04/06/23 19:35	20	UJML
Acrolein	ND		200	60	ug/L		04/06/23 19:35	20	UJML
Acrylonitrile	ND		60	22	ug/L		04/06/23 19:35	20	UJML
2-Chloroethyl vinyl ether	ND		20	10	ug/L		04/06/23 19:35	20	UJML

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*	*04/06/23 19:35*	*20*	*UJML*

Client: Cape May County Municipal Utilities Auth
Job ID: 630-58566-1
Project/Site: Cape May County MUA - Quarterly Leachate

Client Sample ID: LEACHATE GRAB
Lab Sample ID: 630-58566-2
Date Collected: 04/04/23 08:10
Matrix: Leachate
Date Received: 04/04/23 14:15

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Analyzed*	*Dil Fac*	*Analyst*
4-Bromofluorobenzene (Surr)	*95*		*60 - 140*	*04/06/23 19:35*	*20*	*UJML*
Dibromofluoromethane (Surr)	*112*		*60 - 140*	*04/06/23 19:35*	*20*	*UJML*
Toluene-d8 (Surr)	*98*		*60 - 140*	*04/06/23 19:35*	*20*	*UJML*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
HEM (Oil & Grease)	**3.2**	**J**	5.1	1.4	mg/L		04/07/23 21:15	1	QT6L
Cyanide, Total	**0.034**		0.010	0.0050	mg/L		04/10/23 16:02	1	JCG7

Method: Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Field pH by SM4500-H B	**8.07**		0.01	0.01	S.U.		04/04/23 09:30	1	CS

Accreditation/Certification and Definitions Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-58566-1
Project/Site: Cape May County MUA - Quarterly Leachate

Laboratory: Eurofins Environment Testing Philadelphia, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA093 (Horsham)	06-30-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	04-17-23

Qualifiers

General Chemistry

Qualifier	Qualifier Description
b	Result Detected in the Unseeded Control blank (USB).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-58566-1
Project/Site: Cape May County MUA - Quarterly Leachate

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
200.7 Rev 4.4	Metals (ICP)	EPA	ELLE
245.1	Mercury (CVAA)	EPA	ELLE
1664B	HEM and SGT-HEM	1664B	ELLE
335.4	Cyanide, Total	EPA	ELLE
SM 5210B	BOD, 5-Day	SM	ELLE
Field Parameter	Field Parameters	EPA	EET PA
200.7	Preparation, Total Recoverable Metals	EPA	ELLE
245.1	Preparation, Mercury	EPA	ELLE
Distill/CN	Distillation, Cyanide	None	ELLE

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET PA = Eurofins Environment Testing Philadelphia, LLC, 213 Witmer Road, Horsham, PA 19044-0962, TEL (215)355-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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CHAIN OF CUSTODY

Page 1 of 1

630-58566 Chain of Custody

213 Witmer Road	Phone: 215-355-3900
Horsham, PA 19044	
Client/Acct. No.	Cape May County MUA
Address	130 E Moore Rd.
City/State/Zip	CMCH, NJ 08210
Phone/Fax	609-465-8410 / 463-8544
Client Contact:	Emily Zidanic
Bill to/Report to (if different)	Emily Zidanic
Sampling Site Address (if different) Include State	Woodbine NJ
P.O. No.	Waste water PWSID #: Contract
Quote #	
e-mail:	

Lab LIMS No

LAB USE ONLY

___ Ascorbic/HCL Vials # ___ HCl Vials
___ $Na_2S_2O_3$ _____
___ Na OH/Zn acetate pH _____
___ HNO_3 pH _____
___ H_2SO_4 pH _____
___ NaOH pH _____
___ Unpreserved
___ HCl # ____NH4Cl # ____MeOH
____ DI Water

X CODES

DRINKING WATER
GW: GROUND WATER
WW: WASTEWATER
SO: SOIL
SL: SLUDGE
OIL: OIL
SOL: NON SOIL SOLID
MI: MISCELLANEOUS
X: OTHER

PROJECT / FIELD ID	Collection Date	Collection Military Time	GRAB	COMP	Matrix Code	Number of Containers Total	H_2SO_4	HCl	Vials	HNO_3	NaOH	Znac	UNPRE	BACT	ANALYSIS REQUESTED	Field pH, Temp (°C), DO, Cl2, Cond. etc.
SSLF23-04 Leachate	4-4-23	0930	✓		ww	2		X							OIL and GREASE	pH = 8.07
			✓			1					X				CN	
			✓			9		6					3		VOC	
				✓		1				X					Cd / Hg	
				✓		1							X		BOD	
				✓		1							X		pH	

SAMPLED BY: (Name/Company) LA / MUA Landfill

TAT: ☐ STANDARD (10 DAY) or DUE DATE ___/___/___

Report Format: ☒ Standard ☐ NJ-RDD ☐ SRP-RDD ☐ Standard + QC ☐ Forms ☐ EDD

Please call for pricing and availability for rush (<10 day) turnaround and for all but standard reporting format.

Field Parameters Analyzed By: Initials RS Date/Time: 4-4-23 / 0930

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW. USE FULL LEGAL SIGNATURE, DATE AND MILITARY TIME (24 HOUR CLOCK, I.E. 8AM IS 0800, 4 PM IS 1600)

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY SAMPLER	4-4-23	12:30	1. RECEIVED BY CRAIG FOSTER	4/4/23	12:30
2. RELINQUISHED BY CRAIG FOSTER	4/4/23	14:15	2. RECEIVED BY SON	4/4/23	14:15
3. RELINQUISHED BY			3. RECEIVED BY		
4. RELINQUISHED BY			4. RECEIVED BY		
5. RELINQUISHED BY			5. RECEIVED BY		

DELIVERY: ☐ EQC COURIER ☐ CLIENT ☐ UPS ☐ FEDEX ☐ OTHER _____

Custody Seal Number

Rec'd Temp.: 2.2 Initials: CF Ice (Y) N Location: VL

COMMENTS:

Hazardous: yes / no

Eurofins Environment Testing Philadelphia,
213 Witmer Road
Horsham, PA 19044-0962
Phone: 215-355-3900

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-10209.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin: New Jersey	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New Jersey		Job #: 630-58566-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 4/17/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Cape May County MUA - Quarterly Leachate	Project #: 63001619			
Site: Cape May Country MUA Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM5210B_Calc/ BOD, 5-Day Only	245.1/245.1_Prep	200.7/200.7_P_TR (MOD) Local Method	335.4/Distill_CN	624.1_PREC/624_Prep_3D (MOD) PPL	1664B_NP/ HEM Only	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
SSLF23-04 LEACHATE COMPOSITE (630-58566-1)	4/4/23	08:10 Eastern		Water			X	X	X				2	
LEACHATE GRAB (630-58566-2)	4/4/23	08:10 Eastern		Water						X	X	X	13	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jake Glass	4/4/23 15:26	EQLM	SON	4/4/23 15:36	ELL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/7/23 2345	Company ELL

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: SON	Cooler Temperature(s) °C and Other Remarks: 1.8 no TBs

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael M Frisko
Cape May County Municipal Utilities Auth
1523 U.S. Route 9 North
PO BOX 610
Cape May Court House, New Jersey 08210

Generated 6/24/2023 8:31:10 AM Revision 2

JOB DESCRIPTION

Semi-Annual Landfill Leachate Sumps
Semi-Annual Leachate Sumps

JOB NUMBER

630-59801-1

Eurofins Environment Testing Philadelphia, LLC
213 Witmer Road
Horsham PA 19044-0962

RFP-14-23 ADDENDUM 1

See page two for job notes and contact information.

my EOL

Eurofins Environment Testing Philadelphia, LLC

Job Notes

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Authorization

Generated
6/24/2023 8:31:10 AM
Revision 2

Authorized for release by
Michelle Horowitz, Project Manager
Michelle.Horowitz@et.eurofinsus.com
Designee for
Erin Dougherty, Project Administrator
Erin.Dougherty@et.eurofinsus.com
(215)355-3900

Eurofins Environment Testing Philadelphia, LLC

Compliance Statement

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· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015
VL = field staff performs tests under NJ State certification #06005
WG = field staff performs tests under NJ State certification #PA001
H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Table of Contents

Definitions/Glossary

Client: Cape May County Municipal Utilities Auth
Project/Site: Semi-Annual Landfill Leachate Sumps

Job ID: 630-59801-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 630-59801-1

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Narrative

Job Narrative
630-59801-1

REVISION

The report being provided is a revision of the original report sent on 5/10/2023. The report (revision 2) is being revised due to Added 624 method analysis to report..

Report revision history
Revision 1 - 6/23/2023 - Reason - complete analysis now listed on report..

Receipt
The samples were received on 4/21/2023 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC/MS VOA
Method 624.1_PREC: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: LEACHATE SUMP 3 (630-59801-1) and LEACHATE SUMP 11 (630-59801-3). Elevated reporting limits (RLs) are provided.

Method 624.1_PREC: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: LEACHATE SUMP 15 (630-59801-7). Elevated reporting limits (RLs) are provided.

Method 624.1_PREC: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: LEACHATE SUMP 16 (630-59801-8), LEACHATE SUMP 4 (630-59801-11), LEACHATE SUMP 5 (630-59801-12), LEACHATE SUMP 6 (630-59801-13) and LEACHATE SUMP 8 (630-59801-15). Elevated reporting limits (RLs) are provided.

Method 8260D: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: LEACHATE SUMP 11 (630-59801-3), LEACHATE SUMP 15 (630-59801-7), LEACHATE SUMP 16 (630-59801-8), LEACHATE SUMP 5 (630-59801-12), LEACHATE SUMP 6 (630-59801-13) and LEACHATE SUMP 8 (630-59801-15). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-372515 recovered above the upper control limit for Acetone, Acetonitrile, Acrolein, 1,4-Dioxane, 2-Hexanone, Isobutyl alcohol and Propionitrile. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The continuing calibration verification (CCV) analyzed on 410-372515 is compliant under 8260C/D method criteria for Methyl Ethyl Ketone . The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260D: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: LEACHATE SUMP 3 (630-59801-1), LEACHATE SUMP 10 (630-59801-2), LEACHATE SUMP 11 (630-59801-3), LEACHATE SUMP 12 (630-59801-4), LEACHATE SUMP 14 (630-59801-6), LEACHATE SUMP 15 (630-59801-7), LEACHATE SUMP 16 (630-59801-8), LEACHATE SUMP 4 (630-59801-11), LEACHATE SUMP 5 (630-59801-12), LEACHATE SUMP 6 (630-59801-13), LEACHATE SUMP 7 (630-59801-14) and LEACHATE SUMP 8 (630-59801-15). The requested target analyte list includes Acrolein and Acrylonitrile , an acid-labile compound that degrades in an acidic medium.

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: LEACHATE SUMP 3 (630-59801-1), LEACHATE SUMP 11 (630-59801-3), LEACHATE SUMP 15 (630-59801-7), LEACHATE SUMP 4 (630-59801-11), LEACHATE SUMP 5 (630-59801-12), LEACHATE SUMP 6 (630-59801-13) and LEACHATE SUMP 8 (630-59801-15).

Job ID: 630-59801-1 (Continued)

Laboratory: Eurofins Environment Testing Philadelphia, LLC (Continued)

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-373596 recovered outside acceptance criteria, low biased, for trans-1,4-Dichloro-2-butene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 410-373596 recovered above the upper control limit for Methyl chloride. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D: The preservative used in the sample containers provided is not compatible with the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: FIELD BLANK (630-59801-17). The requested target analyte list includes Acrolein and Acrylonitrile , acid-labile compounds that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 200.7: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 7: LEACHATE SUMP 8 (630-59801-15).This does not meet regulatory requirements.

Method 200.7: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 7: LEACHATE SUMP 11 (630-59801-3).This does not meet regulatory requirements.

Method 200.7: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: LEACHATE SUMP 11 (630-59801-3). The reporting limits (RLs) have been adjusted proportionately.

Method 200.8: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: LEACHATE SUMP 11 (630-59801-3). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 3
Lab Sample ID: 630-59801-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.9	J	20	0.70	ug/L	1		8260D	Total/NA
Benzene	2.6		1.0	0.30	ug/L	1		8260D	Total/NA
Chlorobenzene	21		1.0	0.30	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	7.5		5.0	0.30	ug/L	1		8260D	Total/NA
o-Dichlorobenzene	0.92	J	5.0	0.20	ug/L	1		8260D	Total/NA
Xylenes, Total	0.74	J	1.0	0.40	ug/L	1		8260D	Total/NA
Barium	0.18		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0034	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.0075	J	0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.0055	J	0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.14		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	210		10	5.0	mg/L	100		EPA 350.1	Total/NA
Specific Conductance	4200		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	1500		240	96	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	220		10	5.0	mg/L	100		350.1	Dissolved
Depth to Water from Top of Casing	4.30		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 10
Lab Sample ID: 630-59801-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J	20	0.70	ug/L	1		8260D	Total/NA
Benzene	0.45	J	1.0	0.30	ug/L	1		8260D	Total/NA
Tetrachloroethylene	42		1.0	0.30	ug/L	1		8260D	Total/NA
Barium	0.063		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.0033	J	0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.083		0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.057		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	11		0.50	0.25	mg/L	5		EPA 350.1	Total/NA
Specific Conductance	240		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	97		30	12	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	8.3		0.50	0.25	mg/L	5		350.1	Dissolved
Nitrate, Dissolved	0.21	H	0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	29.70		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 11
Lab Sample ID: 630-59801-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22	J	200	7.0	ug/L	10		8260D	Total/NA
Benzene	4.4	J	10	3.0	ug/L	10		8260D	Total/NA
Chlorobenzene	5.5	J	10	3.0	ug/L	10		8260D	Total/NA
1,4-Dichlorobenzene	15	J	50	3.0	ug/L	10		8260D	Total/NA
Toluene	2.3	J	10	2.0	ug/L	10		8260D	Total/NA
Xylenes, Total	16		10	4.0	ug/L	10		8260D	Total/NA
Barium	0.16		0.050	0.010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.13	J	0.15	0.030	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: LEACHATE SUMP 11 (Continued) — Lab Sample ID: 630-59801-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.036	J	0.050	0.015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.21		0.10	0.021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.096	J	0.10	0.019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	190		50	10	ug/L	1		200.7 Rev 4.4	Dissolved
Arsenic	200	J	500	160	ug/L	1		200.7 Rev 4.4	Dissolved
Thallium	2.1	J	5.0	1.3	ug/L	1		200.8 Rev 5.4	Total Recoverable
Ammonia as N	1200		40	20	mg/L	400		EPA 350.1	Total/NA
Specific Conductance	17000		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	5300		600	240	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	1300		40	20	mg/L	400		350.1	Dissolved
Depth to Water from Top of Casing	31.30		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 12 — Lab Sample ID: 630-59801-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.8	J	20	0.70	ug/L	1		8260D	Total/NA
Barium	0.060		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.0037	J	0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0021	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.0078	J	0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.014	J	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.055		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	190		10	5.0	mg/L	100		EPA 350.1	Total/NA
Nitrate as N	1.7		0.10	0.040	mg/L	1		Nitrate by calc	Total/NA
Specific Conductance	910		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	480		60	24	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	14		1.0	0.50	mg/L	10		350.1	Dissolved
Nitrate, Dissolved	1.9	H	0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	39.60		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 13 - DRY — Lab Sample ID: 630-59801-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water from Top of Casing	Dry		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 14 — Lab Sample ID: 630-59801-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.99	J	20	0.70	ug/L	1		8260D	Total/NA
Barium	0.045		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.014		0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.0025	J	0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0092	J	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 14 (Continued) — Lab Sample ID: 630-59801-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.044		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	0.72		0.10	0.050	mg/L	1		EPA 350.1	Total/NA
Nitrate as N	0.83		0.10	0.040	mg/L	1		Nitrate by calc	Total/NA
Specific Conductance	970		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	520		60	24	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	1.8		0.10	0.050	mg/L	1		350.1	Dissolved
Nitrate, Dissolved	0.91	H	0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	24.40		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 15 — Lab Sample ID: 630-59801-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.5	J	200	7.0	ug/L	10		8260D	Total/NA
Arsenic	0.036	J	0.050	0.016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.16		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.10		0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.017		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.043		0.020	0.0080	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.12		0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.012		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.38		0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.055		0.0052	0.0010	mg/L	1		200.7	Dissolved
Thallium	0.24	J	0.50	0.13	ug/L	1		200.8 Rev 5.4	Total Recoverable
Ammonia as N	140		10	5.0	mg/L	100		EPA 350.1	Total/NA
Nitrate as N	30		0.10	0.040	mg/L	1		Nitrate by calc	Total/NA
Specific Conductance	8100		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	5100		240	96	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	26		1.0	0.50	mg/L	10		350.1	Dissolved
Nitrate, Dissolved	7.8	H	0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	22.70		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 16 — Lab Sample ID: 630-59801-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	20	J	200	7.0	ug/L	10		8260D	Total/NA
Barium	0.042		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Copper	0.048		0.020	0.0080	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.76		0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.15		0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.037		0.0052	0.0010	mg/L	1		200.7	Dissolved
Thallium	0.20	J	0.50	0.13	ug/L	1		200.8 Rev 5.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 16 (Continued) — Lab Sample ID: 630-59801-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	24		0.50	0.25	mg/L	5		EPA 350.1	Total/NA
Nitrate as N	15		0.10	0.040	mg/L	1		Nitrate by calc	Total/NA
Specific Conductance	2700		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	1600		240	96	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	13		2.0	1.0	mg/L	20		350.1	Dissolved
Nitrate, Dissolved	11	H	0.10	0.040	mg/L	1		353.2	Dissolved
Depth to Water from Top of Casing	13.30		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 17 - DRY — Lab Sample ID: 630-59801-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water from Top of Casing	Dry		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 18 - DRY — Lab Sample ID: 630-59801-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water from Top of Casing	Dry		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 4 — Lab Sample ID: 630-59801-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J	20	0.70	ug/L	1		8260D	Total/NA
Benzene	2.7		1.0	0.30	ug/L	1		8260D	Total/NA
Chlorobenzene	12		1.0	0.30	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	3.9	J	5.0	0.30	ug/L	1		8260D	Total/NA
o-Dichlorobenzene	0.50	J	5.0	0.20	ug/L	1		8260D	Total/NA
Tetrachloroethylene	5.0		1.0	0.30	ug/L	1		8260D	Total/NA
Toluene	0.21	J	1.0	0.20	ug/L	1		8260D	Total/NA
Xylenes, Total	0.43	J	1.0	0.40	ug/L	1		8260D	Total/NA
Barium	0.17		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0020	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.0042	J	0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.15		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	120		10	5.0	mg/L	100		EPA 350.1	Total/NA
Specific Conductance	2700		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	1000		240	96	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	140		10	5.0	mg/L	100		350.1	Dissolved
Depth to Water from Top of Casing	2.90		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 5 — Lab Sample ID: 630-59801-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	200	7.0	ug/L	10		8260D	Total/NA
Chlorobenzene	12		10	3.0	ug/L	10		8260D	Total/NA
1,4-Dichlorobenzene	11	J	50	3.0	ug/L	10		8260D	Total/NA
Xylenes, Total	4.5	J	10	4.0	ug/L	10		8260D	Total/NA
Arsenic	0.032	J	0.050	0.016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.22		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 5 (Continued) — Lab Sample ID: 630-59801-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.030		0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.015		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.063		0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.041		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0052	J	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.031	J	0.052	0.016	mg/L	1		200.7	Dissolved
Barium	0.16		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	590		20	10	mg/L	200		EPA 350.1	Total/NA
Specific Conductance	10000		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	4400		600	240	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	670		20	10	mg/L	200		350.1	Dissolved
Depth to Water from Top of Casing	0.70		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 6 — Lab Sample ID: 630-59801-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	23	J	200	7.0	ug/L	10		8260D	Total/NA
Chlorobenzene	19		10	3.0	ug/L	10		8260D	Total/NA
1,4-Dichlorobenzene	5.4	J	50	3.0	ug/L	10		8260D	Total/NA
Arsenic	0.033	J	0.050	0.016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.23		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.019		0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.0092		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.038		0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.023		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0057	J	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.037	J	0.052	0.016	mg/L	1		200.7	Dissolved
Selenium	0.016	J	0.052	0.016	mg/L	1		200.7	Dissolved
Barium	0.21		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	310		20	10	mg/L	200		EPA 350.1	Total/NA
Specific Conductance	6000		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	2100		240	96	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	360		20	10	mg/L	200		350.1	Dissolved
Depth to Water from Top of Casing	1.50		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 7 — Lab Sample ID: 630-59801-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	20	0.70	ug/L	1		8260D	Total/NA
Benzene	0.45	J	1.0	0.30	ug/L	1		8260D	Total/NA
Chlorobenzene	0.46	J	1.0	0.30	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethylene	0.30	J	1.0	0.30	ug/L	1		8260D	Total/NA
1,4-Dichlorobenzene	0.68	J	5.0	0.30	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: Semi-Annual Landfill Leachate Sumps

Job ID: 630-59801-1

Client Sample ID: LEACHATE SUMP 7 (Continued) — Lab Sample ID: 630-59801-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.081		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.015		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.024		0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.060		0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.081		0.0052	0.0010	mg/L	1		200.7	Dissolved
Thallium	0.16	J	0.50	0.13	ug/L	1		200.8 Rev 5.4	Total Recoverable
Ammonia as N	4.1		0.10	0.050	mg/L	1		EPA 350.1	Total/NA
Specific Conductance	760		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	460		120	48	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	4.3		0.10	0.050	mg/L	1		350.1	Dissolved
Depth to Water from Top of Casing	32.10		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 8 — Lab Sample ID: 630-59801-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	200	7.0	ug/L	10		8260D	Total/NA
Benzene	4.4	J	10	3.0	ug/L	10		8260D	Total/NA
Chlorobenzene	18		10	3.0	ug/L	10		8260D	Total/NA
1,4-Dichlorobenzene	12	J	50	3.0	ug/L	10		8260D	Total/NA
Arsenic	0.092		0.050	0.016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.30		0.0050	0.0010	mg/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	0.064		0.015	0.0030	mg/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.014		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	0.060		0.010	0.0021	mg/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	0.036		0.010	0.0019	mg/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	0.0064	J	0.020	0.0037	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.059		0.052	0.016	mg/L	1		200.7	Dissolved
Barium	0.18		0.0052	0.0010	mg/L	1		200.7	Dissolved
Ammonia as N	580		20	10	mg/L	200		EPA 350.1	Total/NA
Specific Conductance	9900		5.0	1.7	umhos/cm	1		SM 2510B	Total/NA
Total Dissolved Solids	3800		600	240	mg/L	1		SM 2540C	Total/NA
Ammonia, Dissolved	580		20	10	mg/L	200		350.1	Dissolved
Depth to Water from Top of Casing	28.70		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: LEACHATE SUMP 9 - DRY — Lab Sample ID: 630-59801-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water from Top of Casing	Dry		0.01	0.01	ft	1		Field Parameter	Total/NA

Client Sample ID: FIELD BLANK — Lab Sample ID: 630-59801-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	20	0.70	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: FIELD BLANK (Continued)
Lab Sample ID: 630-59801-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.46	J	1.0	0.30	ug/L	1		8260D	Total/NA
Barium	0.0020	J	0.0052	0.0010	mg/L	1		200.7	Dissolved

Client Sample ID: TRIP BLANK
Lab Sample ID: 630-59801-18

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 3
Lab Sample ID: 630-59801-1

Date Collected: 04/21/23 11:00
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/26/23 21:10	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/26/23 21:10	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/26/23 21:10	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*		*04/26/23 21:10*	*20*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*04/26/23 21:10*	*20*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*04/26/23 21:10*	*20*
Toluene-d8 (Surr)	*97*		*60 - 140*		*04/26/23 21:10*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**9.9**	**J**	20	0.70	ug/L			05/05/23 16:36	1
Acrylonitrile	ND		20	1.6	ug/L			05/05/23 16:36	1
Benzene	**2.6**		1.0	0.30	ug/L			05/05/23 16:36	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/05/23 16:36	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/05/23 16:36	1
Bromoform	ND		4.0	1.0	ug/L			05/05/23 16:36	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/05/23 16:36	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Chlorobenzene	**21**		1.0	0.30	ug/L			05/05/23 16:36	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/05/23 16:36	1
Chloroethane	ND		1.0	0.20	ug/L			05/05/23 16:36	1
Chloroform	ND		1.0	0.30	ug/L			05/05/23 16:36	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 16:36	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 16:36	1
1,4-Dichlorobenzene	**7.5**		5.0	0.30	ug/L			05/05/23 16:36	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:36	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:36	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 16:36	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/05/23 16:36	1
2-Hexanone	ND		10	0.85	ug/L			05/05/23 16:36	1
Methyl bromide	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Methyl chloride	ND		2.0	0.55	ug/L			05/05/23 16:36	1
Methylene bromide	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/05/23 16:36	1
Methyl iodide	ND		1.0	0.30	ug/L			05/05/23 16:36	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/05/23 16:36	1
o-Dichlorobenzene	**0.92**	**J**	5.0	0.20	ug/L			05/05/23 16:36	1
Styrene	ND		5.0	0.30	ug/L			05/05/23 16:36	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 16:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Tetrachloroethylene	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Toluene	ND		1.0	0.20	ug/L			05/05/23 16:36	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/05/23 16:36	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/05/23 16:36	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 16:36	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:36	1

Client Sample ID: LEACHATE SUMP 3
Lab Sample ID: 630-59801-1

Date Collected: 04/21/23 11:00
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/05/23 16:36	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/05/23 16:36	1
Vinyl acetate	ND		10	2.0	ug/L			05/05/23 16:36	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/05/23 16:36	1
Xylenes, Total	**0.74**	**J**	1.0	0.40	ug/L			05/05/23 16:36	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silanol, trimethyl-	*18*	*T J N*	*ug/L*		*5.82*	*1066-40-6*		*05/05/23 16:36*	*1*
Furan, tetrahydro-	*19*	*T J N*	*ug/L*		*6.27*	*109-99-9*		*05/05/23 16:36*	*1*
Naphthalene	*24*	*T J N*	*ug/L*		*14.52*	*91-20-3*		*05/05/23 16:36*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*05/05/23 16:36*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/05/23 16:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/05/23 16:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/05/23 16:36*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 14:43	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 04:35	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 04:35	1
Barium	**0.18**		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:35	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:35	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:35	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 14:52	05/03/23 04:35	1
Cobalt	**0.0034**	**J**	0.0050	0.0015	mg/L		04/28/23 14:52	05/03/23 04:35	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 14:52	05/03/23 04:35	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 14:52	05/03/23 04:35	1
Nickel	**0.0075**	**J**	0.010	0.0021	mg/L		04/28/23 14:52	05/03/23 04:35	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 14:52	05/03/23 04:35	1
Vanadium	**0.0055**	**J**	0.010	0.0019	mg/L		04/28/23 14:52	05/03/23 04:35	1
Zinc	ND		0.020	0.0037	mg/L		04/28/23 14:52	05/03/23 04:35	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:03	1
Selenium	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:03	1
Barium	**0.14**		0.0052	0.0010	mg/L		05/01/23 02:33	05/01/23 18:03	1
Silver	ND		0.010	0.0041	mg/L		05/01/23 02:33	05/01/23 18:03	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 14:52	05/08/23 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**210**		10	5.0	mg/L			04/27/23 10:21	100
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**4200**		5.0	1.7	umhos/cm			04/26/23 18:16	1

Client Sample ID: LEACHATE SUMP 3

Lab Sample ID: 630-59801-1
Date Collected: 04/21/23 11:00
Matrix: Leachate
Date Received: 04/21/23 16:20

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1500**		240	96	mg/L			04/25/23 06:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**220**		10	5.0	mg/L			04/28/23 10:02	100
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**4.30**		0.01	0.01	ft			04/21/23 11:00	1

Client Sample ID: LEACHATE SUMP 10

Lab Sample ID: 630-59801-2
Date Collected: 04/21/23 13:20
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/26/23 21:33	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/26/23 21:33	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/26/23 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*04/26/23 21:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*04/26/23 21:33*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*04/26/23 21:33*	*1*
Toluene-d8 (Surr)	*97*		*60 - 140*		*04/26/23 21:33*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.0**	**J**	20	0.70	ug/L			05/05/23 16:58	1
Acrylonitrile	ND		20	1.6	ug/L			05/05/23 16:58	1
Benzene	**0.45**	**J**	1.0	0.30	ug/L			05/05/23 16:58	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/05/23 16:58	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/05/23 16:58	1
Bromoform	ND		4.0	1.0	ug/L			05/05/23 16:58	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/05/23 16:58	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/05/23 16:58	1
Chloroethane	ND		1.0	0.20	ug/L			05/05/23 16:58	1
Chloroform	ND		1.0	0.30	ug/L			05/05/23 16:58	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 16:58	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 16:58	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/05/23 16:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:58	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:58	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 16:58	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/05/23 16:58	1
2-Hexanone	ND		10	0.85	ug/L			05/05/23 16:58	1

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 10
Lab Sample ID: 630-59801-2

Date Collected: 04/21/23 13:20
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Methyl chloride	ND		2.0	0.55	ug/L			05/05/23 16:58	1
Methylene bromide	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/05/23 16:58	1
Methyl iodide	ND		1.0	0.30	ug/L			05/05/23 16:58	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/05/23 16:58	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/05/23 16:58	1
Styrene	ND		5.0	0.30	ug/L			05/05/23 16:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 16:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Tetrachloroethylene	**42**		1.0	0.30	ug/L			05/05/23 16:58	1
Toluene	ND		1.0	0.20	ug/L			05/05/23 16:58	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/05/23 16:58	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/05/23 16:58	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 16:58	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:58	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/05/23 16:58	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/05/23 16:58	1
Vinyl acetate	ND		10	2.0	ug/L			05/05/23 16:58	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/05/23 16:58	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/05/23 16:58	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 16:58*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*05/05/23 16:58*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/05/23 16:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/05/23 16:58*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/05/23 16:58*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 12:01	05/02/23 12:02	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 12:01	05/02/23 12:02	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 12:01	05/02/23 12:02	1
Barium	**0.063**		0.0050	0.0010	mg/L		04/28/23 12:01	05/02/23 12:02	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 12:01	05/02/23 12:02	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 12:01	05/02/23 12:02	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 12:01	05/02/23 12:02	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 12:01	05/02/23 12:02	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 12:01	05/02/23 12:02	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 12:01	05/02/23 12:02	1
Nickel	**0.0033**	**J**	0.010	0.0021	mg/L		04/28/23 12:01	05/02/23 12:02	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 12:01	05/02/23 12:02	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 12:01	05/02/23 12:02	1
Zinc	**0.083**		0.020	0.0037	mg/L		04/28/23 12:01	05/02/23 12:02	1

Client Sample ID: LEACHATE SUMP 10

Lab Sample ID: 630-59801-2
Date Collected: 04/21/23 13:20
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:40	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:40	1
Barium	**0.057**		0.0052	0.0010	mg/L		04/28/23 11:41	05/01/23 10:40	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 11:41	05/01/23 10:40	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 12:01	05/02/23 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**11**		0.50	0.25	mg/L			04/27/23 10:38	5
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**240**		5.0	1.7	umhos/cm			04/26/23 18:21	1
Total Dissolved Solids (SM 2540C)	**97**		30	12	mg/L			04/24/23 07:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**8.3**		0.50	0.25	mg/L			04/28/23 09:50	5
Nitrate, Dissolved (EPA 353.2)	**0.21**	**H**	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**29.70**		0.01	0.01	ft			04/21/23 13:20	1

Client Sample ID: LEACHATE SUMP 11

Lab Sample ID: 630-59801-3
Date Collected: 04/21/23 11:40
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/26/23 21:57	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/26/23 21:57	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/26/23 21:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*04/26/23 21:57*	*20*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*04/26/23 21:57*	*20*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*04/26/23 21:57*	*20*
Toluene-d8 (Surr)	*97*		*60 - 140*		*04/26/23 21:57*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**22**	**J**	200	7.0	ug/L			05/05/23 17:21	10
Acrylonitrile	ND		200	16	ug/L			05/05/23 17:21	10
Benzene	**4.4**	**J**	10	3.0	ug/L			05/05/23 17:21	10
Bromochloromethane	ND		50	2.0	ug/L			05/05/23 17:21	10
Bromodichloromethane	ND		10	2.0	ug/L			05/05/23 17:21	10
Bromoform	ND		40	10	ug/L			05/05/23 17:21	10
Carbon disulfide	ND		50	3.0	ug/L			05/05/23 17:21	10
Carbon tetrachloride	ND		10	3.0	ug/L			05/05/23 17:21	10

Client Sample ID: LEACHATE SUMP 11
Lab Sample ID: 630-59801-3

Date Collected: 04/21/23 11:40
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**5.5**	**J**	10	3.0	ug/L			05/05/23 17:21	10
Chlorodibromomethane	ND		10	2.0	ug/L			05/05/23 17:21	10
Chloroethane	ND		10	2.0	ug/L			05/05/23 17:21	10
Chloroform	ND		10	3.0	ug/L			05/05/23 17:21	10
cis-1,2-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 17:21	10
cis-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 17:21	10
1,4-Dichlorobenzene	**15**	**J**	50	3.0	ug/L			05/05/23 17:21	10
1,2-Dichloroethane	ND		10	3.0	ug/L			05/05/23 17:21	10
1,1-Dichloroethane	ND		10	3.0	ug/L			05/05/23 17:21	10
1,1-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 17:21	10
1,2-Dichloropropane	ND		10	3.0	ug/L			05/05/23 17:21	10
Ethylbenzene	ND		10	4.0	ug/L			05/05/23 17:21	10
2-Hexanone	ND		100	8.5	ug/L			05/05/23 17:21	10
Methyl bromide	ND		10	3.0	ug/L			05/05/23 17:21	10
Methyl chloride	ND		20	5.5	ug/L			05/05/23 17:21	10
Methylene bromide	ND		10	3.0	ug/L			05/05/23 17:21	10
Methylene Chloride	ND		10	3.0	ug/L			05/05/23 17:21	10
Methyl Ethyl Ketone	ND		100	5.0	ug/L			05/05/23 17:21	10
Methyl iodide	ND		10	3.0	ug/L			05/05/23 17:21	10
4-Methyl-2-pentanone	ND		100	5.0	ug/L			05/05/23 17:21	10
o-Dichlorobenzene	ND		50	2.0	ug/L			05/05/23 17:21	10
Styrene	ND		50	3.0	ug/L			05/05/23 17:21	10
1,1,1,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 17:21	10
1,1,2,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 17:21	10
Tetrachloroethylene	ND		10	3.0	ug/L			05/05/23 17:21	10
Toluene	**2.3**	**J**	10	2.0	ug/L			05/05/23 17:21	10
trans-1,4-Dichloro-2-butene	ND		500	60	ug/L			05/05/23 17:21	10
trans-1,2-Dichloroethylene	ND		20	7.0	ug/L			05/05/23 17:21	10
trans-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 17:21	10
1,1,1-Trichloroethane	ND		10	3.0	ug/L			05/05/23 17:21	10
1,1,2-Trichloroethane	ND		10	3.0	ug/L			05/05/23 17:21	10
Trichloroethylene	ND		10	3.0	ug/L			05/05/23 17:21	10
Trichlorofluoromethane	ND		10	2.0	ug/L			05/05/23 17:21	10
Vinyl acetate	ND		100	20	ug/L			05/05/23 17:21	10
Vinyl chloride	ND		10	2.0	ug/L			05/05/23 17:21	10
Xylenes, Total	**16**		10	4.0	ug/L			05/05/23 17:21	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*140*	*T J*	*ug/L*		*5.82*	*N/A*		*05/05/23 17:21*	*10*
Furan, tetrahydro-	*140*	*T J N*	*ug/L*		*6.27*	*109-99-9*		*05/05/23 17:21*	*10*
L-Fenchone	*76*	*T J N*	*ug/L*		*13.74*	*126-21-6*		*05/05/23 17:21*	*10*
Camphor	*110*	*T J N*	*ug/L*		*14.28*	*76-22-2*		*05/05/23 17:21*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*05/05/23 17:21*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/05/23 17:21*	*10*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/05/23 17:21*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/05/23 17:21*	*10*

Client Sample ID: LEACHATE SUMP 11
Lab Sample ID: 630-59801-3
Date Collected: 04/21/23 11:40
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.50	0.16	mg/L		05/02/23 19:02	05/03/23 07:15	1
Selenium	ND		0.50	0.16	mg/L		05/02/23 19:02	05/03/23 07:15	1
Antimony	ND		0.50	0.16	mg/L		05/02/23 19:02	05/03/23 07:15	1
Barium	**0.16**		0.050	0.010	mg/L		05/02/23 19:02	05/03/23 07:15	1
Beryllium	ND		0.050	0.010	mg/L		05/02/23 19:02	05/03/23 07:15	1
Cadmium	ND		0.050	0.010	mg/L		05/02/23 19:02	05/03/23 07:15	1
Chromium	**0.13**	**J**	0.15	0.030	mg/L		05/02/23 19:02	05/03/23 07:15	1
Cobalt	**0.036**	**J**	0.050	0.015	mg/L		05/02/23 19:02	05/03/23 07:15	1
Copper	ND		0.20	0.080	mg/L		05/02/23 19:02	05/03/23 07:15	1
Lead	ND		0.15	0.071	mg/L		05/02/23 19:02	05/03/23 07:15	1
Nickel	**0.21**		0.10	0.021	mg/L		05/02/23 19:02	05/03/23 07:15	1
Silver	ND		0.10	0.040	mg/L		05/02/23 19:02	05/03/23 07:15	1
Vanadium	**0.096**	**J**	0.10	0.019	mg/L		05/02/23 19:02	05/03/23 07:15	1
Zinc	ND		0.20	0.037	mg/L		05/02/23 19:02	05/03/23 07:15	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**190**		50	10	ug/L		05/02/23 19:02	05/03/23 07:12	1
Silver	ND		100	40	ug/L		05/02/23 19:02	05/03/23 07:12	1
Arsenic	**200**	**J**	500	160	ug/L		05/02/23 19:02	05/03/23 07:12	1
Selenium	ND		500	160	ug/L		05/02/23 19:02	05/03/23 07:12	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**2.1**	**J**	5.0	1.3	ug/L		05/02/23 19:02	05/08/23 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**1200**		40	20	mg/L			04/27/23 11:59	400
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**17000**		5.0	1.7	umhos/cm			04/26/23 18:00	1
Total Dissolved Solids (SM 2540C)	**5300**		600	240	mg/L			04/25/23 10:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**1300**		40	20	mg/L			04/28/23 11:38	400
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**31.30**		0.01	0.01	ft			04/21/23 11:40	1

Client Sample ID: LEACHATE SUMP 12
Lab Sample ID: 630-59801-4
Date Collected: 04/21/23 11:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/28/23 12:30	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/28/23 12:30	1

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 12
Lab Sample ID: 630-59801-4
Date Collected: 04/21/23 11:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/28/23 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*04/28/23 12:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*60 - 140*		*04/28/23 12:30*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*04/28/23 12:30*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*04/28/23 12:30*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**2.8**	**J**	20	0.70	ug/L			05/05/23 17:43	1
Acrylonitrile	ND		20	1.6	ug/L			05/05/23 17:43	1
Benzene	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/05/23 17:43	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/05/23 17:43	1
Bromoform	ND		4.0	1.0	ug/L			05/05/23 17:43	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/05/23 17:43	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/05/23 17:43	1
Chloroethane	ND		1.0	0.20	ug/L			05/05/23 17:43	1
Chloroform	ND		1.0	0.30	ug/L			05/05/23 17:43	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 17:43	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 17:43	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/05/23 17:43	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 17:43	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 17:43	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 17:43	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/05/23 17:43	1
2-Hexanone	ND		10	0.85	ug/L			05/05/23 17:43	1
Methyl bromide	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Methyl chloride	ND		2.0	0.55	ug/L			05/05/23 17:43	1
Methylene bromide	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/05/23 17:43	1
Methyl iodide	ND		1.0	0.30	ug/L			05/05/23 17:43	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/05/23 17:43	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/05/23 17:43	1
Styrene	ND		5.0	0.30	ug/L			05/05/23 17:43	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 17:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Tetrachloroethylene	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Toluene	ND		1.0	0.20	ug/L			05/05/23 17:43	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/05/23 17:43	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/05/23 17:43	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 17:43	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 17:43	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 17:43	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/05/23 17:43	1

Client Sample ID: LEACHATE SUMP 12
Lab Sample ID: 630-59801-4

Date Collected: 04/21/23 11:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/05/23 17:43	1
Vinyl acetate	ND		10	2.0	ug/L			05/05/23 17:43	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/05/23 17:43	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/05/23 17:43	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 17:43*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*05/05/23 17:43*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/05/23 17:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/05/23 17:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/05/23 17:43*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:22	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:22	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:22	1
Barium	**0.060**		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:22	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:22	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:22	1
Chromium	**0.0037**	**J**	0.015	0.0030	mg/L		04/28/23 11:56	05/01/23 09:22	1
Cobalt	**0.0021**	**J**	0.0050	0.0015	mg/L		04/28/23 11:56	05/01/23 09:22	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 11:56	05/01/23 09:22	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 11:56	05/01/23 09:22	1
Nickel	**0.0078**	**J**	0.010	0.0021	mg/L		04/28/23 11:56	05/01/23 09:22	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 11:56	05/01/23 09:22	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 11:56	05/01/23 09:22	1
Zinc	**0.014**	**J**	0.020	0.0037	mg/L		04/28/23 11:56	05/01/23 09:22	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:33	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:33	1
Barium	**0.055**		0.0052	0.0010	mg/L		04/28/23 11:41	05/01/23 10:33	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 11:41	05/01/23 10:33	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 11:56	05/08/23 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**190**		10	5.0	mg/L			04/27/23 10:40	100
Nitrate as N (SM Nitrate by calc)	**1.7**		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**910**		5.0	1.7	umhos/cm			04/26/23 18:19	1
Total Dissolved Solids (SM 2540C)	**480**		60	24	mg/L			04/24/23 07:10	1

Client Sample ID: LEACHATE SUMP 12
Lab Sample ID: 630-59801-4
Date Collected: 04/21/23 11:55
Matrix: Leachate
Date Received: 04/21/23 16:20

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	14		1.0	0.50	mg/L			04/28/23 09:52	10
Nitrate, Dissolved (EPA 353.2)	1.9	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	39.60		0.01	0.01	ft			04/21/23 11:55	1

Client Sample ID: LEACHATE SUMP 13 - DRY
Lab Sample ID: 630-59801-5
Date Collected: 04/21/23 00:00
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	Dry		0.01	0.01	ft			04/21/23 00:00	1

Client Sample ID: LEACHATE SUMP 14
Lab Sample ID: 630-59801-6
Date Collected: 04/21/23 12:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/28/23 12:52	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/28/23 12:52	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/28/23 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*04/28/23 12:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*60 - 140*		*04/28/23 12:52*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*		*04/28/23 12:52*	*1*
Toluene-d8 (Surr)	*95*		*60 - 140*		*04/28/23 12:52*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.99	J	20	0.70	ug/L			05/05/23 18:05	1
Acrylonitrile	ND		20	1.6	ug/L			05/05/23 18:05	1
Benzene	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/05/23 18:05	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/05/23 18:05	1
Bromoform	ND		4.0	1.0	ug/L			05/05/23 18:05	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/05/23 18:05	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/05/23 18:05	1
Chloroethane	ND		1.0	0.20	ug/L			05/05/23 18:05	1
Chloroform	ND		1.0	0.30	ug/L			05/05/23 18:05	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 18:05	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 18:05	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/05/23 18:05	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 18:05	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 18:05	1

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 14
Lab Sample ID: 630-59801-6

Date Collected: 04/21/23 12:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 18:05	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/05/23 18:05	1
2-Hexanone	ND		10	0.85	ug/L			05/05/23 18:05	1
Methyl bromide	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Methyl chloride	ND		2.0	0.55	ug/L			05/05/23 18:05	1
Methylene bromide	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/05/23 18:05	1
Methyl iodide	ND		1.0	0.30	ug/L			05/05/23 18:05	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/05/23 18:05	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/05/23 18:05	1
Styrene	ND		5.0	0.30	ug/L			05/05/23 18:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 18:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Tetrachloroethylene	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Toluene	ND		1.0	0.20	ug/L			05/05/23 18:05	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/05/23 18:05	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/05/23 18:05	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 18:05	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 18:05	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/05/23 18:05	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/05/23 18:05	1
Vinyl acetate	ND		10	2.0	ug/L			05/05/23 18:05	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/05/23 18:05	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/05/23 18:05	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 18:05*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*05/05/23 18:05*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*05/05/23 18:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/05/23 18:05*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/05/23 18:05*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:19	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:19	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:19	1
Barium	**0.045**		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:19	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:19	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:19	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 11:56	05/01/23 09:19	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 11:56	05/01/23 09:19	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 11:56	05/01/23 09:19	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 11:56	05/01/23 09:19	1
Nickel	**0.014**		0.010	0.0021	mg/L		04/28/23 11:56	05/01/23 09:19	1

Client Sample ID: LEACHATE SUMP 14

Lab Sample ID: 630-59801-6
Date Collected: 04/21/23 12:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.010	0.0040	mg/L		04/28/23 11:56	05/01/23 09:19	1
Vanadium	**0.0025**	**J**	0.010	0.0019	mg/L		04/28/23 11:56	05/01/23 09:19	1
Zinc	**0.0092**	**J**	0.020	0.0037	mg/L		04/28/23 11:56	05/01/23 09:19	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:37	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:37	1
Barium	**0.044**		0.0052	0.0010	mg/L		04/28/23 11:41	05/01/23 10:37	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 11:41	05/01/23 10:37	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 11:56	05/08/23 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**0.72**		0.10	0.050	mg/L			04/27/23 10:34	1
Nitrate as N (SM Nitrate by calc)	**0.83**		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**970**		5.0	1.7	umhos/cm			04/26/23 18:22	1
Total Dissolved Solids (SM 2540C)	**520**		60	24	mg/L			04/25/23 06:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**1.8**		0.10	0.050	mg/L			04/28/23 09:48	1
Nitrate, Dissolved (EPA 353.2)	**0.91**	**H**	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**24.40**		0.01	0.01	ft			04/21/23 12:15	1

Client Sample ID: LEACHATE SUMP 15

Lab Sample ID: 630-59801-7
Date Collected: 04/21/23 12:50
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/28/23 13:13	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/28/23 13:13	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/28/23 13:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*04/28/23 13:13*	*20*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*04/28/23 13:13*	*20*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*04/28/23 13:13*	*20*
Toluene-d8 (Surr)	*96*		*60 - 140*		*04/28/23 13:13*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**9.5**	**J**	200	7.0	ug/L			05/05/23 18:28	10
Acrylonitrile	ND		200	16	ug/L			05/05/23 18:28	10

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 15
Lab Sample ID: 630-59801-7
Date Collected: 04/21/23 12:50
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	3.0	ug/L			05/05/23 18:28	10
Bromochloromethane	ND		50	2.0	ug/L			05/05/23 18:28	10
Bromodichloromethane	ND		10	2.0	ug/L			05/05/23 18:28	10
Bromoform	ND		40	10	ug/L			05/05/23 18:28	10
Carbon disulfide	ND		50	3.0	ug/L			05/05/23 18:28	10
Carbon tetrachloride	ND		10	3.0	ug/L			05/05/23 18:28	10
Chlorobenzene	ND		10	3.0	ug/L			05/05/23 18:28	10
Chlorodibromomethane	ND		10	2.0	ug/L			05/05/23 18:28	10
Chloroethane	ND		10	2.0	ug/L			05/05/23 18:28	10
Chloroform	ND		10	3.0	ug/L			05/05/23 18:28	10
cis-1,2-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 18:28	10
cis-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 18:28	10
1,4-Dichlorobenzene	ND		50	3.0	ug/L			05/05/23 18:28	10
1,2-Dichloroethane	ND		10	3.0	ug/L			05/05/23 18:28	10
1,1-Dichloroethane	ND		10	3.0	ug/L			05/05/23 18:28	10
1,1-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 18:28	10
1,2-Dichloropropane	ND		10	3.0	ug/L			05/05/23 18:28	10
Ethylbenzene	ND		10	4.0	ug/L			05/05/23 18:28	10
2-Hexanone	ND		100	8.5	ug/L			05/05/23 18:28	10
Methyl bromide	ND		10	3.0	ug/L			05/05/23 18:28	10
Methyl chloride	ND		20	5.5	ug/L			05/05/23 18:28	10
Methylene bromide	ND		10	3.0	ug/L			05/05/23 18:28	10
Methylene Chloride	ND		10	3.0	ug/L			05/05/23 18:28	10
Methyl Ethyl Ketone	ND		100	5.0	ug/L			05/05/23 18:28	10
Methyl iodide	ND		10	3.0	ug/L			05/05/23 18:28	10
4-Methyl-2-pentanone	ND		100	5.0	ug/L			05/05/23 18:28	10
o-Dichlorobenzene	ND		50	2.0	ug/L			05/05/23 18:28	10
Styrene	ND		50	3.0	ug/L			05/05/23 18:28	10
1,1,1,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 18:28	10
1,1,2,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 18:28	10
Tetrachloroethylene	ND		10	3.0	ug/L			05/05/23 18:28	10
Toluene	ND		10	2.0	ug/L			05/05/23 18:28	10
trans-1,4-Dichloro-2-butene	ND		500	60	ug/L			05/05/23 18:28	10
trans-1,2-Dichloroethylene	ND		20	7.0	ug/L			05/05/23 18:28	10
trans-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 18:28	10
1,1,1-Trichloroethane	ND		10	3.0	ug/L			05/05/23 18:28	10
1,1,2-Trichloroethane	ND		10	3.0	ug/L			05/05/23 18:28	10
Trichloroethylene	ND		10	3.0	ug/L			05/05/23 18:28	10
Trichlorofluoromethane	ND		10	2.0	ug/L			05/05/23 18:28	10
Vinyl acetate	ND		100	20	ug/L			05/05/23 18:28	10
Vinyl chloride	ND		10	2.0	ug/L			05/05/23 18:28	10
Xylenes, Total	ND		10	4.0	ug/L			05/05/23 18:28	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 18:28*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/05/23 18:28*	*10*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/05/23 18:28*	*10*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/05/23 18:28*	*10*

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 15
Lab Sample ID: 630-59801-7
Date Collected: 04/21/23 12:50
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/05/23 18:28*	*10*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.036**	**J**	0.050	0.016	mg/L		04/28/23 14:52	05/03/23 14:23	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 03:44	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 03:44	1
Barium	**0.16**		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 03:44	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 03:44	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 03:44	1
Chromium	**0.10**		0.015	0.0030	mg/L		04/28/23 14:52	05/03/23 03:44	1
Cobalt	**0.017**		0.0050	0.0015	mg/L		04/28/23 14:52	05/03/23 03:44	1
Copper	**0.043**		0.020	0.0080	mg/L		04/28/23 14:52	05/03/23 03:44	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 14:52	05/03/23 03:44	1
Nickel	**0.12**		0.010	0.0021	mg/L		04/28/23 14:52	05/03/23 03:44	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 14:52	05/03/23 03:44	1
Vanadium	**0.012**		0.010	0.0019	mg/L		04/28/23 14:52	05/03/23 03:44	1
Zinc	**0.38**		0.020	0.0037	mg/L		04/28/23 14:52	05/03/23 03:44	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:27	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 10:27	1
Barium	**0.055**		0.0052	0.0010	mg/L		04/28/23 11:41	05/01/23 10:27	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 11:41	05/01/23 10:27	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.24**	**J**	0.50	0.13	ug/L		04/28/23 14:52	05/08/23 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**140**		10	5.0	mg/L			04/27/23 10:42	100
Nitrate as N (SM Nitrate by calc)	**30**		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**8100**		5.0	1.7	umhos/cm			04/26/23 18:03	1
Total Dissolved Solids (SM 2540C)	**5100**		240	96	mg/L			04/25/23 06:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**26**		1.0	0.50	mg/L			04/28/23 09:54	10
Nitrate, Dissolved (EPA 353.2)	**7.8**	**H**	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**22.70**		0.01	0.01	ft			04/21/23 12:50	1

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 16
Lab Sample ID: 630-59801-8

Date Collected: 04/21/23 12:35
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/28/23 13:38	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/28/23 13:38	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/28/23 13:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*04/28/23 13:38*	*20*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*04/28/23 13:38*	*20*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*04/28/23 13:38*	*20*
Toluene-d8 (Surr)	*100*		*60 - 140*		*04/28/23 13:38*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**20**	**J**	200	7.0	ug/L			05/05/23 18:51	10
Acrylonitrile	ND		200	16	ug/L			05/05/23 18:51	10
Benzene	ND		10	3.0	ug/L			05/05/23 18:51	10
Bromochloromethane	ND		50	2.0	ug/L			05/05/23 18:51	10
Bromodichloromethane	ND		10	2.0	ug/L			05/05/23 18:51	10
Bromoform	ND		40	10	ug/L			05/05/23 18:51	10
Carbon disulfide	ND		50	3.0	ug/L			05/05/23 18:51	10
Carbon tetrachloride	ND		10	3.0	ug/L			05/05/23 18:51	10
Chlorobenzene	ND		10	3.0	ug/L			05/05/23 18:51	10
Chlorodibromomethane	ND		10	2.0	ug/L			05/05/23 18:51	10
Chloroethane	ND		10	2.0	ug/L			05/05/23 18:51	10
Chloroform	ND		10	3.0	ug/L			05/05/23 18:51	10
cis-1,2-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 18:51	10
cis-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 18:51	10
1,4-Dichlorobenzene	ND		50	3.0	ug/L			05/05/23 18:51	10
1,2-Dichloroethane	ND		10	3.0	ug/L			05/05/23 18:51	10
1,1-Dichloroethane	ND		10	3.0	ug/L			05/05/23 18:51	10
1,1-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 18:51	10
1,2-Dichloropropane	ND		10	3.0	ug/L			05/05/23 18:51	10
Ethylbenzene	ND		10	4.0	ug/L			05/05/23 18:51	10
2-Hexanone	ND		100	8.5	ug/L			05/05/23 18:51	10
Methyl bromide	ND		10	3.0	ug/L			05/05/23 18:51	10
Methyl chloride	ND		20	5.5	ug/L			05/05/23 18:51	10
Methylene bromide	ND		10	3.0	ug/L			05/05/23 18:51	10
Methylene Chloride	ND		10	3.0	ug/L			05/05/23 18:51	10
Methyl Ethyl Ketone	ND		100	5.0	ug/L			05/05/23 18:51	10
Methyl iodide	ND		10	3.0	ug/L			05/05/23 18:51	10
4-Methyl-2-pentanone	ND		100	5.0	ug/L			05/05/23 18:51	10
o-Dichlorobenzene	ND		50	2.0	ug/L			05/05/23 18:51	10
Styrene	ND		50	3.0	ug/L			05/05/23 18:51	10
1,1,1,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 18:51	10
1,1,2,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 18:51	10
Tetrachloroethylene	ND		10	3.0	ug/L			05/05/23 18:51	10
Toluene	ND		10	2.0	ug/L			05/05/23 18:51	10
trans-1,4-Dichloro-2-butene	ND		500	60	ug/L			05/05/23 18:51	10
trans-1,2-Dichloroethylene	ND		20	7.0	ug/L			05/05/23 18:51	10
trans-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 18:51	10
1,1,1-Trichloroethane	ND		10	3.0	ug/L			05/05/23 18:51	10

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 16
Lab Sample ID: 630-59801-8

Date Collected: 04/21/23 12:35
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		10	3.0	ug/L			05/05/23 18:51	10
Trichloroethylene	ND		10	3.0	ug/L			05/05/23 18:51	10
Trichlorofluoromethane	ND		10	2.0	ug/L			05/05/23 18:51	10
Vinyl acetate	ND		100	20	ug/L			05/05/23 18:51	10
Vinyl chloride	ND		10	2.0	ug/L			05/05/23 18:51	10
Xylenes, Total	ND		10	4.0	ug/L			05/05/23 18:51	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 18:51*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/05/23 18:51*	*10*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/05/23 18:51*	*10*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/05/23 18:51*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/05/23 18:51*	*10*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 11:27	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 11:27	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 11:27	1
Barium	**0.042**		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 11:27	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 11:27	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 11:27	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 11:53	05/02/23 11:27	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 11:53	05/02/23 11:27	1
Copper	**0.048**		0.020	0.0080	mg/L		04/28/23 11:53	05/02/23 11:27	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 11:53	05/02/23 11:27	1
Nickel	**0.76**		0.010	0.0021	mg/L		04/28/23 11:53	05/02/23 11:27	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 11:53	05/02/23 11:27	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 11:53	05/02/23 11:27	1
Zinc	**0.15**		0.020	0.0037	mg/L		04/28/23 11:53	05/02/23 11:27	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:00	1
Selenium	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:00	1
Barium	**0.037**		0.0052	0.0010	mg/L		05/01/23 02:33	05/01/23 18:00	1
Silver	ND		0.010	0.0041	mg/L		05/01/23 02:33	05/01/23 18:00	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.20**	**J**	0.50	0.13	ug/L		04/28/23 11:53	05/08/23 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**24**		0.50	0.25	mg/L			04/26/23 10:20	5
Nitrate as N (SM Nitrate by calc)	**15**		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**2700**		5.0	1.7	umhos/cm			04/26/23 18:09	1
Total Dissolved Solids (SM 2540C)	**1600**		240	96	mg/L			04/26/23 06:50	1

Client Sample ID: LEACHATE SUMP 16
Lab Sample ID: 630-59801-8
Date Collected: 04/21/23 12:35
Matrix: Leachate
Date Received: 04/21/23 16:20

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	13		2.0	1.0	mg/L			04/28/23 10:00	20
Nitrate, Dissolved (EPA 353.2)	11	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	13.30		0.01	0.01	ft			04/21/23 12:35	1

Client Sample ID: LEACHATE SUMP 17 - DRY
Lab Sample ID: 630-59801-9
Date Collected: 04/21/23 00:00
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	Dry		0.01	0.01	ft			04/21/23 00:00	1

Client Sample ID: LEACHATE SUMP 18 - DRY
Lab Sample ID: 630-59801-10
Date Collected: 04/21/23 00:00
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	Dry		0.01	0.01	ft			04/21/23 00:00	1

Client Sample ID: LEACHATE SUMP 4
Lab Sample ID: 630-59801-11
Date Collected: 04/21/23 11:20
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/28/23 14:01	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/28/23 14:01	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/28/23 14:01	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*04/28/23 14:01*	*20*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*04/28/23 14:01*	*20*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*04/28/23 14:01*	*20*
Toluene-d8 (Surr)	*99*		*60 - 140*		*04/28/23 14:01*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16	J	20	0.70	ug/L			05/05/23 19:13	1
Acrylonitrile	ND		20	1.6	ug/L			05/05/23 19:13	1
Benzene	2.7		1.0	0.30	ug/L			05/05/23 19:13	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/05/23 19:13	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/05/23 19:13	1
Bromoform	ND		4.0	1.0	ug/L			05/05/23 19:13	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/05/23 19:13	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/05/23 19:13	1

Client Sample ID: LEACHATE SUMP 4
Lab Sample ID: 630-59801-11

Date Collected: 04/21/23 11:20
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	**12**		1.0	0.30	ug/L			05/05/23 19:13	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/05/23 19:13	1
Chloroethane	ND		1.0	0.20	ug/L			05/05/23 19:13	1
Chloroform	ND		1.0	0.30	ug/L			05/05/23 19:13	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 19:13	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 19:13	1
1,4-Dichlorobenzene	**3.9**	**J**	5.0	0.30	ug/L			05/05/23 19:13	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 19:13	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 19:13	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 19:13	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/05/23 19:13	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/05/23 19:13	1
2-Hexanone	ND		10	0.85	ug/L			05/05/23 19:13	1
Methyl bromide	ND		1.0	0.30	ug/L			05/05/23 19:13	1
Methyl chloride	ND		2.0	0.55	ug/L			05/05/23 19:13	1
Methylene bromide	ND		1.0	0.30	ug/L			05/05/23 19:13	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/05/23 19:13	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/05/23 19:13	1
Methyl iodide	ND		1.0	0.30	ug/L			05/05/23 19:13	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/05/23 19:13	1
o-Dichlorobenzene	**0.50**	**J**	5.0	0.20	ug/L			05/05/23 19:13	1
Styrene	ND		5.0	0.30	ug/L			05/05/23 19:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 19:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 19:13	1
Tetrachloroethylene	**5.0**		1.0	0.30	ug/L			05/05/23 19:13	1
Toluene	**0.21**	**J**	1.0	0.20	ug/L			05/05/23 19:13	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/05/23 19:13	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/05/23 19:13	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 19:13	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 19:13	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 19:13	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/05/23 19:13	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/05/23 19:13	1
Vinyl acetate	ND		10	2.0	ug/L			05/05/23 19:13	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/05/23 19:13	1
Xylenes, Total	**0.43**	**J**	1.0	0.40	ug/L			05/05/23 19:13	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*12*	*T J*	*ug/L*		*5.82*	*N/A*		*05/05/23 19:13*	*1*
Furan, tetrahydro-	*14*	*T J N*	*ug/L*		*6.28*	*109-99-9*		*05/05/23 19:13*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/05/23 19:13*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*05/05/23 19:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/05/23 19:13*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/05/23 19:13*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 15:00	1

Client Sample ID: LEACHATE SUMP 4
Lab Sample ID: 630-59801-11
Date Collected: 04/21/23 11:20
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 05:00	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 05:00	1
Barium	**0.17**		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 05:00	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 05:00	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 05:00	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 14:52	05/03/23 05:00	1
Cobalt	**0.0020**	**J**	0.0050	0.0015	mg/L		04/28/23 14:52	05/03/23 05:00	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 14:52	05/03/23 05:00	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 14:52	05/03/23 05:00	1
Nickel	**0.0042**	**J**	0.010	0.0021	mg/L		04/28/23 14:52	05/03/23 05:00	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 14:52	05/03/23 05:00	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 14:52	05/03/23 05:00	1
Zinc	ND		0.020	0.0037	mg/L		04/28/23 14:52	05/03/23 05:00	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 17:57	1
Selenium	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 17:57	1
Barium	**0.15**		0.0052	0.0010	mg/L		05/01/23 02:33	05/01/23 17:57	1
Silver	ND		0.010	0.0041	mg/L		05/01/23 02:33	05/01/23 17:57	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 14:52	05/08/23 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**120**		10	5.0	mg/L			04/27/23 10:44	100
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**2700**		5.0	1.7	umhos/cm			04/26/23 18:18	1
Total Dissolved Solids (SM 2540C)	**1000**		240	96	mg/L			04/26/23 06:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**140**		10	5.0	mg/L			04/28/23 10:04	100
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**2.90**		0.01	0.01	ft			04/21/23 11:20	1

Client Sample ID: LEACHATE SUMP 5
Lab Sample ID: 630-59801-12
Date Collected: 04/21/23 10:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/28/23 14:23	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/28/23 14:23	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/28/23 14:23	20

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 5
Lab Sample ID: 630-59801-12

Date Collected: 04/21/23 10:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		60 - 140		04/28/23 14:23	20
4-Bromofluorobenzene (Surr)	100		60 - 140		04/28/23 14:23	20
Dibromofluoromethane (Surr)	102		60 - 140		04/28/23 14:23	20
Toluene-d8 (Surr)	100		60 - 140		04/28/23 14:23	20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**13**	**J**	200	7.0	ug/L			05/05/23 19:36	10
Acrylonitrile	ND		200	16	ug/L			05/05/23 19:36	10
Benzene	ND		10	3.0	ug/L			05/05/23 19:36	10
Bromochloromethane	ND		50	2.0	ug/L			05/05/23 19:36	10
Bromodichloromethane	ND		10	2.0	ug/L			05/05/23 19:36	10
Bromoform	ND		40	10	ug/L			05/05/23 19:36	10
Carbon disulfide	ND		50	3.0	ug/L			05/05/23 19:36	10
Carbon tetrachloride	ND		10	3.0	ug/L			05/05/23 19:36	10
Chlorobenzene	**12**		10	3.0	ug/L			05/05/23 19:36	10
Chlorodibromomethane	ND		10	2.0	ug/L			05/05/23 19:36	10
Chloroethane	ND		10	2.0	ug/L			05/05/23 19:36	10
Chloroform	ND		10	3.0	ug/L			05/05/23 19:36	10
cis-1,2-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 19:36	10
cis-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 19:36	10
1,4-Dichlorobenzene	**11**	**J**	50	3.0	ug/L			05/05/23 19:36	10
1,2-Dichloroethane	ND		10	3.0	ug/L			05/05/23 19:36	10
1,1-Dichloroethane	ND		10	3.0	ug/L			05/05/23 19:36	10
1,1-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 19:36	10
1,2-Dichloropropane	ND		10	3.0	ug/L			05/05/23 19:36	10
Ethylbenzene	ND		10	4.0	ug/L			05/05/23 19:36	10
2-Hexanone	ND		100	8.5	ug/L			05/05/23 19:36	10
Methyl bromide	ND		10	3.0	ug/L			05/05/23 19:36	10
Methyl chloride	ND		20	5.5	ug/L			05/05/23 19:36	10
Methylene bromide	ND		10	3.0	ug/L			05/05/23 19:36	10
Methylene Chloride	ND		10	3.0	ug/L			05/05/23 19:36	10
Methyl Ethyl Ketone	ND		100	5.0	ug/L			05/05/23 19:36	10
Methyl iodide	ND		10	3.0	ug/L			05/05/23 19:36	10
4-Methyl-2-pentanone	ND		100	5.0	ug/L			05/05/23 19:36	10
o-Dichlorobenzene	ND		50	2.0	ug/L			05/05/23 19:36	10
Styrene	ND		50	3.0	ug/L			05/05/23 19:36	10
1,1,1,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 19:36	10
1,1,2,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 19:36	10
Tetrachloroethylene	ND		10	3.0	ug/L			05/05/23 19:36	10
Toluene	ND		10	2.0	ug/L			05/05/23 19:36	10
trans-1,4-Dichloro-2-butene	ND		500	60	ug/L			05/05/23 19:36	10
trans-1,2-Dichloroethylene	ND		20	7.0	ug/L			05/05/23 19:36	10
trans-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 19:36	10
1,1,1-Trichloroethane	ND		10	3.0	ug/L			05/05/23 19:36	10
1,1,2-Trichloroethane	ND		10	3.0	ug/L			05/05/23 19:36	10
Trichloroethylene	ND		10	3.0	ug/L			05/05/23 19:36	10
Trichlorofluoromethane	ND		10	2.0	ug/L			05/05/23 19:36	10
Vinyl acetate	ND		100	20	ug/L			05/05/23 19:36	10
Vinyl chloride	ND		10	2.0	ug/L			05/05/23 19:36	10

Client Sample ID: LEACHATE SUMP 5
Lab Sample ID: 630-59801-12

Date Collected: 04/21/23 10:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	**4.5**	**J**	10	4.0	ug/L			05/05/23 19:36	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*59*	*T J*	*ug/L*		*5.83*	*N/A*		*05/05/23 19:36*	*10*
Furan, tetrahydro-	*62*	*T J N*	*ug/L*		*6.27*	*109-99-9*		*05/05/23 19:36*	*10*
Azulene	*64*	*T J N*	*ug/L*		*14.52*	*275-51-4*		*05/05/23 19:36*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/05/23 19:36*	*10*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/05/23 19:36*	*10*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/05/23 19:36*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/05/23 19:36*	*10*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.032**	**J**	0.050	0.016	mg/L		04/28/23 14:52	05/03/23 15:03	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 05:06	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 05:06	1
Barium	**0.22**		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 05:06	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 05:06	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 05:06	1
Chromium	**0.030**		0.015	0.0030	mg/L		04/28/23 14:52	05/03/23 05:06	1
Cobalt	**0.015**		0.0050	0.0015	mg/L		04/28/23 14:52	05/03/23 05:06	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 14:52	05/03/23 05:06	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 14:52	05/03/23 05:06	1
Nickel	**0.063**		0.010	0.0021	mg/L		04/28/23 14:52	05/03/23 05:06	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 14:52	05/03/23 05:06	1
Vanadium	**0.041**		0.010	0.0019	mg/L		04/28/23 14:52	05/03/23 05:06	1
Zinc	**0.0052**	**J**	0.020	0.0037	mg/L		04/28/23 14:52	05/03/23 05:06	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.031**	**J**	0.052	0.016	mg/L		05/01/23 02:33	05/01/23 17:54	1
Selenium	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 17:54	1
Barium	**0.16**		0.0052	0.0010	mg/L		05/01/23 02:33	05/01/23 17:54	1
Silver	ND		0.010	0.0041	mg/L		05/01/23 02:33	05/01/23 17:54	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 14:52	05/08/23 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**590**		20	10	mg/L			04/26/23 10:22	200
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**10000**		5.0	1.7	umhos/cm			04/26/23 18:10	1
Total Dissolved Solids (SM 2540C)	**4400**		600	240	mg/L			04/26/23 08:43	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**670**		20	10	mg/L			04/28/23 10:09	200

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 5
Lab Sample ID: 630-59801-12
Date Collected: 04/21/23 10:15
Matrix: Leachate
Date Received: 04/21/23 16:20

General Chemistry - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**0.70**		0.01	0.01	ft			04/21/23 10:15	1

Client Sample ID: LEACHATE SUMP 6
Lab Sample ID: 630-59801-13
Date Collected: 04/21/23 10:45
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/28/23 14:46	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/28/23 14:46	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/28/23 14:46	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*04/28/23 14:46*	*20*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*04/28/23 14:46*	*20*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*04/28/23 14:46*	*20*
Toluene-d8 (Surr)	*100*		*60 - 140*		*04/28/23 14:46*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**23**	**J**	200	7.0	ug/L			05/05/23 19:58	10
Acrylonitrile	ND		200	16	ug/L			05/05/23 19:58	10
Benzene	ND		10	3.0	ug/L			05/05/23 19:58	10
Bromochloromethane	ND		50	2.0	ug/L			05/05/23 19:58	10
Bromodichloromethane	ND		10	2.0	ug/L			05/05/23 19:58	10
Bromoform	ND		40	10	ug/L			05/05/23 19:58	10
Carbon disulfide	ND		50	3.0	ug/L			05/05/23 19:58	10
Carbon tetrachloride	ND		10	3.0	ug/L			05/05/23 19:58	10
Chlorobenzene	**19**		10	3.0	ug/L			05/05/23 19:58	10
Chlorodibromomethane	ND		10	2.0	ug/L			05/05/23 19:58	10
Chloroethane	ND		10	2.0	ug/L			05/05/23 19:58	10
Chloroform	ND		10	3.0	ug/L			05/05/23 19:58	10
cis-1,2-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 19:58	10
cis-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 19:58	10
1,4-Dichlorobenzene	**5.4**	**J**	50	3.0	ug/L			05/05/23 19:58	10
1,2-Dichloroethane	ND		10	3.0	ug/L			05/05/23 19:58	10
1,1-Dichloroethane	ND		10	3.0	ug/L			05/05/23 19:58	10
1,1-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 19:58	10
1,2-Dichloropropane	ND		10	3.0	ug/L			05/05/23 19:58	10
Ethylbenzene	ND		10	4.0	ug/L			05/05/23 19:58	10
2-Hexanone	ND		100	8.5	ug/L			05/05/23 19:58	10
Methyl bromide	ND		10	3.0	ug/L			05/05/23 19:58	10
Methyl chloride	ND		20	5.5	ug/L			05/05/23 19:58	10
Methylene bromide	ND		10	3.0	ug/L			05/05/23 19:58	10
Methylene Chloride	ND		10	3.0	ug/L			05/05/23 19:58	10
Methyl Ethyl Ketone	ND		100	5.0	ug/L			05/05/23 19:58	10

Client Sample ID: LEACHATE SUMP 6
Lab Sample ID: 630-59801-13

Date Collected: 04/21/23 10:45
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl iodide	ND		10	3.0	ug/L			05/05/23 19:58	10
4-Methyl-2-pentanone	ND		100	5.0	ug/L			05/05/23 19:58	10
o-Dichlorobenzene	ND		50	2.0	ug/L			05/05/23 19:58	10
Styrene	ND		50	3.0	ug/L			05/05/23 19:58	10
1,1,1,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 19:58	10
1,1,2,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 19:58	10
Tetrachloroethylene	ND		10	3.0	ug/L			05/05/23 19:58	10
Toluene	ND		10	2.0	ug/L			05/05/23 19:58	10
trans-1,4-Dichloro-2-butene	ND		500	60	ug/L			05/05/23 19:58	10
trans-1,2-Dichloroethylene	ND		20	7.0	ug/L			05/05/23 19:58	10
trans-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 19:58	10
1,1,1-Trichloroethane	ND		10	3.0	ug/L			05/05/23 19:58	10
1,1,2-Trichloroethane	ND		10	3.0	ug/L			05/05/23 19:58	10
Trichloroethylene	ND		10	3.0	ug/L			05/05/23 19:58	10
Trichlorofluoromethane	ND		10	2.0	ug/L			05/05/23 19:58	10
Vinyl acetate	ND		100	20	ug/L			05/05/23 19:58	10
Vinyl chloride	ND		10	2.0	ug/L			05/05/23 19:58	10
Xylenes, Total	ND		10	4.0	ug/L			05/05/23 19:58	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 19:58*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*05/05/23 19:58*	*10*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*05/05/23 19:58*	*10*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*05/05/23 19:58*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/05/23 19:58*	*10*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.033**	**J**	0.050	0.016	mg/L		04/28/23 14:52	05/03/23 14:56	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 04:41	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 04:41	1
Barium	**0.23**		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:41	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:41	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:41	1
Chromium	**0.019**		0.015	0.0030	mg/L		04/28/23 14:52	05/03/23 04:41	1
Cobalt	**0.0092**		0.0050	0.0015	mg/L		04/28/23 14:52	05/03/23 04:41	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 14:52	05/03/23 04:41	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 14:52	05/03/23 04:41	1
Nickel	**0.038**		0.010	0.0021	mg/L		04/28/23 14:52	05/03/23 04:41	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 14:52	05/03/23 04:41	1
Vanadium	**0.023**		0.010	0.0019	mg/L		04/28/23 14:52	05/03/23 04:41	1
Zinc	**0.0057**	**J**	0.020	0.0037	mg/L		04/28/23 14:52	05/03/23 04:41	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.037**	**J**	0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:07	1
Selenium	**0.016**	**J**	0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:07	1
Barium	**0.21**		0.0052	0.0010	mg/L		05/01/23 02:33	05/01/23 18:07	1

Client Sample ID: LEACHATE SUMP 6

Lab Sample ID: 630-59801-13
Date Collected: 04/21/23 10:45
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 200.7 - Dissolved Metals - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.010	0.0041	mg/L		05/01/23 02:33	05/01/23 18:07	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 14:52	05/08/23 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**310**		20	10	mg/L			04/27/23 10:53	200
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**6000**		5.0	1.7	umhos/cm			04/26/23 18:12	1
Total Dissolved Solids (SM 2540C)	**2100**		240	96	mg/L			04/26/23 06:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**360**		20	10	mg/L			04/28/23 10:40	200
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**1.50**		0.01	0.01	ft			04/21/23 10:45	1

Client Sample ID: LEACHATE SUMP 7

Lab Sample ID: 630-59801-14
Date Collected: 04/21/23 09:30
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/28/23 15:09	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/28/23 15:09	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/28/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*04/28/23 15:09*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*04/28/23 15:09*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*04/28/23 15:09*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*04/28/23 15:09*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**11**	**J**	20	0.70	ug/L			05/05/23 20:20	1
Acrylonitrile	ND		20	1.6	ug/L			05/05/23 20:20	1
Benzene	**0.45**	**J**	1.0	0.30	ug/L			05/05/23 20:20	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/05/23 20:20	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/05/23 20:20	1
Bromoform	ND		4.0	1.0	ug/L			05/05/23 20:20	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/05/23 20:20	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Chlorobenzene	**0.46**	**J**	1.0	0.30	ug/L			05/05/23 20:20	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/05/23 20:20	1
Chloroethane	ND		1.0	0.20	ug/L			05/05/23 20:20	1

Client Sample ID: LEACHATE SUMP 7
Lab Sample ID: 630-59801-14

Date Collected: 04/21/23 09:30
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.30	ug/L			05/05/23 20:20	1
cis-1,2-Dichloroethylene	**0.30**	**J**	1.0	0.30	ug/L			05/05/23 20:20	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 20:20	1
1,4-Dichlorobenzene	**0.68**	**J**	5.0	0.30	ug/L			05/05/23 20:20	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 20:20	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 20:20	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 20:20	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/05/23 20:20	1
2-Hexanone	ND		10	0.85	ug/L			05/05/23 20:20	1
Methyl bromide	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Methyl chloride	ND		2.0	0.55	ug/L			05/05/23 20:20	1
Methylene bromide	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/05/23 20:20	1
Methyl iodide	ND		1.0	0.30	ug/L			05/05/23 20:20	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/05/23 20:20	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/05/23 20:20	1
Styrene	ND		5.0	0.30	ug/L			05/05/23 20:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 20:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Tetrachloroethylene	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Toluene	ND		1.0	0.20	ug/L			05/05/23 20:20	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/05/23 20:20	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/05/23 20:20	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 20:20	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 20:20	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/05/23 20:20	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/05/23 20:20	1
Vinyl acetate	ND		10	2.0	ug/L			05/05/23 20:20	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/05/23 20:20	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/05/23 20:20	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 20:20*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/05/23 20:20*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*05/05/23 20:20*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*05/05/23 20:20*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/05/23 20:20*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:16	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:16	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 09:16	1
Barium	**0.081**		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:16	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:16	1

Client Sample ID: LEACHATE SUMP 7
Lab Sample ID: 630-59801-14
Date Collected: 04/21/23 09:30
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 09:16	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 11:56	05/01/23 09:16	1
Cobalt	**0.015**		0.0050	0.0015	mg/L		04/28/23 11:56	05/01/23 09:16	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 11:56	05/01/23 09:16	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 11:56	05/01/23 09:16	1
Nickel	**0.024**		0.010	0.0021	mg/L		04/28/23 11:56	05/01/23 09:16	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 11:56	05/01/23 09:16	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 11:56	05/01/23 09:16	1
Zinc	**0.060**		0.020	0.0037	mg/L		04/28/23 11:56	05/01/23 09:16	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/28/23 04:51	04/28/23 10:37	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 04:51	04/28/23 10:37	1
Barium	**0.081**		0.0052	0.0010	mg/L		04/28/23 04:51	04/28/23 10:37	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 04:51	04/28/23 10:37	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	**0.16**	**J**	0.50	0.13	ug/L		04/28/23 11:56	05/08/23 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**4.1**		0.10	0.050	mg/L			04/27/23 10:36	1
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**760**		5.0	1.7	umhos/cm			04/26/23 18:24	1
Total Dissolved Solids (SM 2540C)	**460**		120	48	mg/L			04/26/23 06:50	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**4.3**		0.10	0.050	mg/L			04/28/23 10:21	1
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**32.10**		0.01	0.01	ft			04/21/23 09:30	1

Client Sample ID: LEACHATE SUMP 8
Lab Sample ID: 630-59801-15
Date Collected: 04/21/23 09:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		20	10	ug/L			04/28/23 15:31	20
1,2,3-Trichloropropane	ND		20	4.0	ug/L			04/28/23 15:31	20
1,2-Dibromoethane	ND		20	4.0	ug/L			04/28/23 15:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*04/28/23 15:31*	*20*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*04/28/23 15:31*	*20*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*04/28/23 15:31*	*20*

Client Sample ID: LEACHATE SUMP 8
Lab Sample ID: 630-59801-15

Date Collected: 04/21/23 09:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*		*60 - 140*		*04/28/23 15:31*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**13**	**J**	200	7.0	ug/L			05/05/23 20:43	10
Acrylonitrile	ND		200	16	ug/L			05/05/23 20:43	10
Benzene	**4.4**	**J**	10	3.0	ug/L			05/05/23 20:43	10
Bromochloromethane	ND		50	2.0	ug/L			05/05/23 20:43	10
Bromodichloromethane	ND		10	2.0	ug/L			05/05/23 20:43	10
Bromoform	ND		40	10	ug/L			05/05/23 20:43	10
Carbon disulfide	ND		50	3.0	ug/L			05/05/23 20:43	10
Carbon tetrachloride	ND		10	3.0	ug/L			05/05/23 20:43	10
Chlorobenzene	**18**		10	3.0	ug/L			05/05/23 20:43	10
Chlorodibromomethane	ND		10	2.0	ug/L			05/05/23 20:43	10
Chloroethane	ND		10	2.0	ug/L			05/05/23 20:43	10
Chloroform	ND		10	3.0	ug/L			05/05/23 20:43	10
cis-1,2-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 20:43	10
cis-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 20:43	10
1,4-Dichlorobenzene	**12**	**J**	50	3.0	ug/L			05/05/23 20:43	10
1,2-Dichloroethane	ND		10	3.0	ug/L			05/05/23 20:43	10
1,1-Dichloroethane	ND		10	3.0	ug/L			05/05/23 20:43	10
1,1-Dichloroethylene	ND		10	3.0	ug/L			05/05/23 20:43	10
1,2-Dichloropropane	ND		10	3.0	ug/L			05/05/23 20:43	10
Ethylbenzene	ND		10	4.0	ug/L			05/05/23 20:43	10
2-Hexanone	ND		100	8.5	ug/L			05/05/23 20:43	10
Methyl bromide	ND		10	3.0	ug/L			05/05/23 20:43	10
Methyl chloride	ND		20	5.5	ug/L			05/05/23 20:43	10
Methylene bromide	ND		10	3.0	ug/L			05/05/23 20:43	10
Methylene Chloride	ND		10	3.0	ug/L			05/05/23 20:43	10
Methyl Ethyl Ketone	ND		100	5.0	ug/L			05/05/23 20:43	10
Methyl iodide	ND		10	3.0	ug/L			05/05/23 20:43	10
4-Methyl-2-pentanone	ND		100	5.0	ug/L			05/05/23 20:43	10
o-Dichlorobenzene	ND		50	2.0	ug/L			05/05/23 20:43	10
Styrene	ND		50	3.0	ug/L			05/05/23 20:43	10
1,1,1,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 20:43	10
1,1,2,2-Tetrachloroethane	ND		10	3.0	ug/L			05/05/23 20:43	10
Tetrachloroethylene	ND		10	3.0	ug/L			05/05/23 20:43	10
Toluene	ND		10	2.0	ug/L			05/05/23 20:43	10
trans-1,4-Dichloro-2-butene	ND		500	60	ug/L			05/05/23 20:43	10
trans-1,2-Dichloroethylene	ND		20	7.0	ug/L			05/05/23 20:43	10
trans-1,3-Dichloropropene	ND		10	2.0	ug/L			05/05/23 20:43	10
1,1,1-Trichloroethane	ND		10	3.0	ug/L			05/05/23 20:43	10
1,1,2-Trichloroethane	ND		10	3.0	ug/L			05/05/23 20:43	10
Trichloroethylene	ND		10	3.0	ug/L			05/05/23 20:43	10
Trichlorofluoromethane	ND		10	2.0	ug/L			05/05/23 20:43	10
Vinyl acetate	ND		100	20	ug/L			05/05/23 20:43	10
Vinyl chloride	ND		10	2.0	ug/L			05/05/23 20:43	10
Xylenes, Total	ND		10	4.0	ug/L			05/05/23 20:43	10

Client Sample ID: LEACHATE SUMP 8
Lab Sample ID: 630-59801-15

Date Collected: 04/21/23 09:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	71	T J	ug/L		5.82	N/A		05/05/23 20:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		05/05/23 20:43	10
Dibromofluoromethane (Surr)	103		80 - 120		05/05/23 20:43	10
4-Bromofluorobenzene (Surr)	98		80 - 120		05/05/23 20:43	10
Toluene-d8 (Surr)	101		80 - 120		05/05/23 20:43	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.092**		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 14:40	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 04:28	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 04:28	1
Barium	**0.30**		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:28	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:28	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 04:28	1
Chromium	**0.064**		0.015	0.0030	mg/L		04/28/23 14:52	05/03/23 04:28	1
Cobalt	**0.014**		0.0050	0.0015	mg/L		04/28/23 14:52	05/03/23 04:28	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 14:52	05/03/23 04:28	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 14:52	05/03/23 04:28	1
Nickel	**0.060**		0.010	0.0021	mg/L		04/28/23 14:52	05/03/23 04:28	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 14:52	05/03/23 04:28	1
Vanadium	**0.036**		0.010	0.0019	mg/L		04/28/23 14:52	05/03/23 04:28	1
Zinc	**0.0064**	J	0.020	0.0037	mg/L		04/28/23 14:52	05/03/23 04:28	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.059**		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:10	1
Selenium	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 18:10	1
Barium	**0.18**		0.0052	0.0010	mg/L		05/01/23 02:33	05/01/23 18:10	1
Silver	ND		0.010	0.0041	mg/L		05/01/23 02:33	05/01/23 18:10	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 14:52	05/08/23 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	**580**		20	10	mg/L			04/27/23 10:55	200
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	**9900**		5.0	1.7	umhos/cm			04/26/23 18:07	1
Total Dissolved Solids (SM 2540C)	**3800**		600	240	mg/L			04/26/23 08:43	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	**580**		20	10	mg/L			04/28/23 10:42	200
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	**28.70**		0.01	0.01	ft			04/21/23 09:55	1

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 9 - DRY

Lab Sample ID: 630-59801-16
Matrix: Leachate
Date Collected: 04/21/23 00:00
Date Received: 04/21/23 16:20

Method: EPA Field Parameter - Field Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water from Top of Casing	Dry		0.01	0.01	ft			04/21/23 00:00	1

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-59801-17
Matrix: Water
Date Collected: 04/21/23 09:20
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/28/23 15:54	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/28/23 15:54	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/28/23 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*04/28/23 15:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*60 - 140*		*04/28/23 15:54*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*04/28/23 15:54*	*1*
Toluene-d8 (Surr)	*99*		*60 - 140*		*04/28/23 15:54*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	1.5	J	20	0.70	ug/L			05/09/23 20:33	1
Acrylonitrile	ND		20	1.6	ug/L			05/09/23 20:33	1
Benzene	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/09/23 20:33	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/09/23 20:33	1
Bromoform	ND		4.0	1.0	ug/L			05/09/23 20:33	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/09/23 20:33	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/09/23 20:33	1
Chloroethane	ND		1.0	0.20	ug/L			05/09/23 20:33	1
Chloroform	0.46	J	1.0	0.30	ug/L			05/09/23 20:33	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/09/23 20:33	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/09/23 20:33	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/09/23 20:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/09/23 20:33	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/09/23 20:33	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/09/23 20:33	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/09/23 20:33	1
2-Hexanone	ND		10	0.85	ug/L			05/09/23 20:33	1
Methyl bromide	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Methyl chloride	ND		2.0	0.55	ug/L			05/09/23 20:33	1
Methylene bromide	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/09/23 20:33	1
Methyl iodide	ND		1.0	0.30	ug/L			05/09/23 20:33	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/09/23 20:33	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/09/23 20:33	1
Styrene	ND		5.0	0.30	ug/L			05/09/23 20:33	1

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: FIELD BLANK
Lab Sample ID: 630-59801-17
Date Collected: 04/21/23 09:20
Matrix: Water
Date Received: 04/21/23 16:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/09/23 20:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Tetrachloroethylene	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Toluene	ND		1.0	0.20	ug/L			05/09/23 20:33	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/09/23 20:33	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/09/23 20:33	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/09/23 20:33	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/09/23 20:33	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/09/23 20:33	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/09/23 20:33	1
Vinyl acetate	ND		10	2.0	ug/L			05/09/23 20:33	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/09/23 20:33	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/09/23 20:33	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/09/23 20:33*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*05/09/23 20:33*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*05/09/23 20:33*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*05/09/23 20:33*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/09/23 20:33*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 11:37	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 11:37	1
Antimony	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 11:37	1
Barium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 11:37	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 11:37	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 11:37	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 11:53	05/02/23 11:37	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 11:53	05/02/23 11:37	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 11:53	05/02/23 11:37	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 11:53	05/02/23 11:37	1
Nickel	ND		0.010	0.0021	mg/L		04/28/23 11:53	05/02/23 11:37	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 11:53	05/02/23 11:37	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 11:53	05/02/23 11:37	1
Zinc	ND		0.020	0.0037	mg/L		04/28/23 11:53	05/02/23 11:37	1

Method: EPA 200.7 - Dissolved Metals - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.052	0.016	mg/L		04/28/23 04:51	04/28/23 11:12	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 04:51	04/28/23 11:12	1
Barium	**0.0020**	**J**	0.0052	0.0010	mg/L		04/28/23 04:51	04/28/23 11:12	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 04:51	04/28/23 11:12	1

Method: EPA 200.8 Rev 5.4 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 11:53	05/08/23 17:13	1

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: FIELD BLANK
Lab Sample ID: 630-59801-17
Date Collected: 04/21/23 09:20
Matrix: Water
Date Received: 04/21/23 16:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N (EPA 350.1)	ND		0.10	0.050	mg/L			04/27/23 11:13	1
Nitrate as N (SM Nitrate by calc)	ND		0.10	0.040	mg/L			05/09/23 18:17	1
Specific Conductance (SM 2510B)	ND		5.0	1.7	umhos/cm			04/26/23 17:50	1
Total Dissolved Solids (SM 2540C)	ND		30	12	mg/L			04/24/23 07:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved (EPA 350.1)	ND		0.10	0.050	mg/L			04/28/23 10:23	1
Nitrate, Dissolved (EPA 353.2)	ND	H	0.10	0.040	mg/L			05/09/23 18:19	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 630-59801-18
Date Collected: 04/21/23 07:07
Matrix: Water
Date Received: 04/21/23 16:20

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/28/23 16:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/28/23 16:17	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/28/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*04/28/23 16:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*04/28/23 16:17*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*04/28/23 16:17*	*1*
Toluene-d8 (Surr)	*100*		*60 - 140*		*04/28/23 16:17*	*1*

Surrogate Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
630-59801-1	LEACHATE SUMP 3	101	101	103	97
630-59801-2	LEACHATE SUMP 10	102	102	103	97
630-59801-3	LEACHATE SUMP 11	102	101	102	97
630-59801-4	LEACHATE SUMP 12	105	97	105	96
630-59801-6	LEACHATE SUMP 14	105	98	105	95
630-59801-7	LEACHATE SUMP 15	105	99	104	96
630-59801-8	LEACHATE SUMP 16	100	99	101	100
630-59801-11	LEACHATE SUMP 4	103	100	100	99
630-59801-12	LEACHATE SUMP 5	102	100	102	100
630-59801-13	LEACHATE SUMP 6	100	100	100	100
630-59801-14	LEACHATE SUMP 7	100	100	99	100
630-59801-15	LEACHATE SUMP 8	100	100	102	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
630-59801-17	FIELD BLANK	100	102	100	99
630-59801-18	TRIP BLANK	102	99	103	100
LCS 410-368844/1003	Lab Control Sample	101	101	100	98
LCS 410-369799/1003	Lab Control Sample	102	99	103	98
LCS 410-369826/1003	Lab Control Sample	100	101	102	100
MB 410-368844/5	Method Blank	100	101	101	98
MB 410-369799/5	Method Blank	105	99	103	96
MB 410-369826/5	Method Blank	103	100	101	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
630-59801-1	LEACHATE SUMP 3	102	102	99	102
630-59801-2	LEACHATE SUMP 10	107	104	99	101
630-59801-3	LEACHATE SUMP 11	108	102	102	100
630-59801-4	LEACHATE SUMP 12	106	103	99	99
630-59801-6	LEACHATE SUMP 14	108	105	98	100

Surrogate Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Leachate **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
630-59801-7	LEACHATE SUMP 15	104	104	98	102
630-59801-8	LEACHATE SUMP 16	104	104	99	101
630-59801-11	LEACHATE SUMP 4	105	103	99	100
630-59801-12	LEACHATE SUMP 5	104	102	98	101
630-59801-13	LEACHATE SUMP 6	107	104	99	100
630-59801-14	LEACHATE SUMP 7	105	101	97	102
630-59801-15	LEACHATE SUMP 8	103	103	98	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
630-59801-17	FIELD BLANK	101	94	94	104
LCS 410-372515/5	Lab Control Sample	107	101	99	103
LCS 410-372515/7	Lab Control Sample	104	103	100	101
LCS 410-373596/5	Lab Control Sample	103	93	94	105
LCS 410-373596/6	Lab Control Sample	102	93	95	104
LCSD 410-372515/6	Lab Control Sample Dup	103	98	99	104
LCSD 410-372515/8	Lab Control Sample Dup	106	101	100	101
LCSD 410-373596/7	Lab Control Sample Dup	103	94	96	105
MB 410-372515/11	Method Blank	105	102	100	103
MB 410-373596/10	Method Blank	104	94	95	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-368844/5
Matrix: Water
Analysis Batch: 368844

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/26/23 13:22	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/26/23 13:22	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/26/23 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*04/26/23 13:22*	*1*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*		*04/26/23 13:22*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*04/26/23 13:22*	*1*
Toluene-d8 (Surr)	*98*		*60 - 140*		*04/26/23 13:22*	*1*

Lab Sample ID: LCS 410-368844/1003
Matrix: Water
Analysis Batch: 368844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.3		ug/L		91	60 - 140
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	70 - 130
1,1-Dichloroethane	20.0	18.3		ug/L		92	70 - 130
1,1-Dichloroethene	20.0	18.9		ug/L		95	50 - 150
1,2-Dichloroethane	20.0	16.9		ug/L		85	70 - 130
1,2-Dichloropropane	20.0	18.7		ug/L		94	35 - 165
Benzene	20.0	19.3		ug/L		97	65 - 135
Bromodichloromethane	20.0	19.2		ug/L		96	65 - 135
Bromoform	20.0	19.6		ug/L		98	70 - 130
Bromomethane	20.0	22.0		ug/L		110	15 - 185
Carbon tetrachloride	20.0	19.9		ug/L		99	70 - 130
Chlorobenzene	20.0	18.2		ug/L		91	65 - 135
Chloroethane	20.0	21.9		ug/L		109	40 - 160
Chloroform	20.0	18.9		ug/L		94	70 - 135
Chloromethane	20.0	22.6		ug/L		113	10 - 200
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	60 - 140
cis-1,3-Dichloropropene	20.0	17.8		ug/L		89	25 - 175
Dibromochloromethane	20.0	19.1		ug/L		96	70 - 135
Ethylbenzene	20.0	18.8		ug/L		94	60 - 140
Methylene Chloride	20.0	18.4		ug/L		92	60 - 140
Toluene	20.0	18.8		ug/L		94	70 - 130
Tetrachloroethene	20.0	18.6		ug/L		93	70 - 130
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	50 - 150
Trichloroethene	20.0	18.9		ug/L		94	65 - 135
Trichlorofluoromethane	20.0	19.0		ug/L		95	50 - 150
Vinyl chloride	20.0	21.0		ug/L		105	10 - 195
Xylenes, Total	60.0	57.4		ug/L		96	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		87	60 - 140
1,2,3-Trichloropropane	20.0	18.0		ug/L		90	60 - 140
1,2-Dibromoethane	20.0	18.3		ug/L		92	60 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-368844/1003
Matrix: Water
Analysis Batch: 368844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*
Dibromofluoromethane (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

Lab Sample ID: MB 410-369799/5
Matrix: Water
Analysis Batch: 369799

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/28/23 11:02	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/28/23 11:02	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/28/23 11:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*04/28/23 11:02*	*1*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*		*04/28/23 11:02*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*04/28/23 11:02*	*1*
Toluene-d8 (Surr)	*96*		*60 - 140*		*04/28/23 11:02*	*1*

Lab Sample ID: LCS 410-369799/1003
Matrix: Water
Analysis Batch: 369799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	17.4		ug/L		87	60 - 140
1,1,2-Trichloroethane	20.0	18.1		ug/L		91	70 - 130
1,1-Dichloroethane	20.0	18.8		ug/L		94	70 - 130
1,1-Dichloroethene	20.0	19.4		ug/L		97	50 - 150
1,2-Dichloroethane	20.0	17.4		ug/L		87	70 - 130
1,2-Dichloropropane	20.0	18.7		ug/L		93	35 - 165
Benzene	20.0	19.5		ug/L		97	65 - 135
Bromodichloromethane	20.0	19.3		ug/L		96	65 - 135
Bromoform	20.0	19.7		ug/L		98	70 - 130
Bromomethane	20.0	17.5		ug/L		87	15 - 185
Carbon tetrachloride	20.0	20.1		ug/L		101	70 - 130
Chlorobenzene	20.0	17.9		ug/L		90	65 - 135
Chloroethane	20.0	17.5		ug/L		87	40 - 160
Chloroform	20.0	19.2		ug/L		96	70 - 135
Chloromethane	20.0	15.7		ug/L		79	10 - 200
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	60 - 140
cis-1,3-Dichloropropene	20.0	17.1		ug/L		86	25 - 175
Dibromochloromethane	20.0	18.9		ug/L		95	70 - 135
Ethylbenzene	20.0	18.4		ug/L		92	60 - 140
Methylene Chloride	20.0	19.0		ug/L		95	60 - 140
Toluene	20.0	18.5		ug/L		92	70 - 130
Tetrachloroethene	20.0	18.5		ug/L		92	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-369799/1003
Matrix: Water
Analysis Batch: 369799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	20.0	19.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	20.0	17.2		ug/L		86	50 - 150
Trichloroethene	20.0	19.0		ug/L		95	65 - 135
Trichlorofluoromethane	20.0	16.1		ug/L		81	50 - 150
Vinyl chloride	20.0	15.8		ug/L		79	10 - 195
Xylenes, Total	60.0	55.9		ug/L		93	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	60 - 140
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	60 - 140
1,2-Dibromoethane	20.0	18.1		ug/L		91	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
4-Bromofluorobenzene (Surr)	*99*		*60 - 140*
Dibromofluoromethane (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*98*		*60 - 140*

Lab Sample ID: MB 410-369826/5
Matrix: Water
Analysis Batch: 369826

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			04/28/23 12:52	1
1,2,3-Trichloropropane	ND		1.0	0.20	ug/L			04/28/23 12:52	1
1,2-Dibromoethane	ND		1.0	0.20	ug/L			04/28/23 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*04/28/23 12:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*60 - 140*		*04/28/23 12:52*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*04/28/23 12:52*	*1*
Toluene-d8 (Surr)	*101*		*60 - 140*		*04/28/23 12:52*	*1*

Lab Sample ID: LCS 410-369826/1003
Matrix: Water
Analysis Batch: 369826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	60 - 140
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	70 - 130
1,1-Dichloroethane	20.0	19.8		ug/L		99	70 - 130
1,1-Dichloroethene	20.0	18.8		ug/L		94	50 - 150
1,2-Dichloroethane	20.0	19.3		ug/L		96	70 - 130
1,2-Dichloropropane	20.0	19.9		ug/L		99	35 - 165
Benzene	20.0	20.4		ug/L		102	65 - 135
Bromodichloromethane	20.0	21.1		ug/L		105	65 - 135
Bromoform	20.0	21.5		ug/L		108	70 - 130
Bromomethane	20.0	20.5		ug/L		103	15 - 185
Carbon tetrachloride	20.0	21.7		ug/L		108	70 - 130

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-369826/1003
Matrix: Water
Analysis Batch: 369826

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	20.0	19.9		ug/L		100	65 - 135
Chloroethane	20.0	21.2		ug/L		106	40 - 160
Chloroform	20.0	20.0		ug/L		100	70 - 135
Chloromethane	20.0	20.6		ug/L		103	10 - 200
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	60 - 140
cis-1,3-Dichloropropene	20.0	20.5		ug/L		102	25 - 175
Dibromochloromethane	20.0	21.3		ug/L		106	70 - 135
Ethylbenzene	20.0	20.3		ug/L		101	60 - 140
Methylene Chloride	20.0	19.3		ug/L		97	60 - 140
Toluene	20.0	20.5		ug/L		103	70 - 130
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 130
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	70 - 130
trans-1,3-Dichloropropene	20.0	21.1		ug/L		106	50 - 150
Trichloroethene	20.0	20.0		ug/L		100	65 - 135
Trichlorofluoromethane	20.0	17.3		ug/L		87	50 - 150
Vinyl chloride	20.0	19.9		ug/L		100	10 - 195
Xylenes, Total	60.0	62.2		ug/L		104	60 - 140
1,2-Dibromo-3-Chloropropane	20.0	20.2		ug/L		101	60 - 140
1,2,3-Trichloropropane	20.0	19.0		ug/L		95	60 - 140
1,2-Dibromoethane	20.0	20.7		ug/L		103	60 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
4-Bromofluorobenzene (Surr)	*101*		*60 - 140*
Dibromofluoromethane (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*60 - 140*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-372515/11
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/05/23 13:14	1
Acrylonitrile	ND		20	1.6	ug/L			05/05/23 13:14	1
Benzene	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/05/23 13:14	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/05/23 13:14	1
Bromoform	ND		4.0	1.0	ug/L			05/05/23 13:14	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/05/23 13:14	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/05/23 13:14	1
Chloroethane	ND		1.0	0.20	ug/L			05/05/23 13:14	1
Chloroform	ND		1.0	0.30	ug/L			05/05/23 13:14	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 13:14	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 13:14	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/05/23 13:14	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-372515/11
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 13:14	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/05/23 13:14	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/05/23 13:14	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/05/23 13:14	1
2-Hexanone	ND		10	0.85	ug/L			05/05/23 13:14	1
Methyl bromide	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Methyl chloride	ND		2.0	0.55	ug/L			05/05/23 13:14	1
Methylene bromide	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/05/23 13:14	1
Methyl iodide	ND		1.0	0.30	ug/L			05/05/23 13:14	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/05/23 13:14	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/05/23 13:14	1
Styrene	ND		5.0	0.30	ug/L			05/05/23 13:14	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 13:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Tetrachloroethylene	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Toluene	ND		1.0	0.20	ug/L			05/05/23 13:14	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/05/23 13:14	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/05/23 13:14	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/05/23 13:14	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 13:14	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/05/23 13:14	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/05/23 13:14	1
Vinyl acetate	ND		10	2.0	ug/L			05/05/23 13:14	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/05/23 13:14	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/05/23 13:14	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/05/23 13:14*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*05/05/23 13:14*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*05/05/23 13:14*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/05/23 13:14*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/05/23 13:14*	*1*

Lab Sample ID: LCS 410-372515/5
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	296		ug/L		119	54 - 157
Acrolein	150	189		ug/L		126	47 - 136
Acrylonitrile	100	106		ug/L		106	60 - 129
Allyl chloride	20.0	21.6		ug/L		108	62 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-372515/5
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	20.5		ug/L		103	80 - 120
Bromochloromethane	20.0	20.3		ug/L		101	80 - 120
Bromodichloromethane	20.0	18.1		ug/L		91	71 - 120
Bromoform	20.0	18.7		ug/L		94	51 - 120
Carbon disulfide	20.0	21.0		ug/L		105	65 - 128
Carbon tetrachloride	20.0	18.2		ug/L		91	64 - 134
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120
2-Chloro-1,3-butadiene	20.0	19.4		ug/L		97	70 - 121
Chlorodibromomethane	20.0	19.8		ug/L		99	71 - 120
Chloroethane	20.0	18.9		ug/L		95	55 - 123
Chloroform	20.0	19.1		ug/L		96	80 - 120
cis-1,2-Dichloroethylene	20.0	20.8		ug/L		104	80 - 125
cis-1,3-Dichloropropene	20.0	17.5		ug/L		88	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.7		ug/L		84	47 - 131
1,2-Dibromoethane	20.0	19.5		ug/L		97	77 - 120
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
Dichlorodifluoromethane	20.0	12.0		ug/L		60	41 - 127
1,2-Dichloroethane	20.0	17.7		ug/L		89	73 - 124
1,1-Dichloroethane	20.0	20.0		ug/L		100	80 - 120
1,1-Dichloroethylene	20.0	19.0		ug/L		95	80 - 131
1,2-Dichloropropane	20.0	20.0		ug/L		100	80 - 120
1,4-Dioxane	500	547		ug/L		109	63 - 146
Ethylbenzene	20.0	19.7		ug/L		98	80 - 120
Ethyl methacrylate	20.0	18.3		ug/L		92	59 - 141
2-Hexanone	250	272		ug/L		109	56 - 135
Isobutyl alcohol	500	560		ug/L		112	61 - 136
Methacrylonitrile	150	149		ug/L		99	73 - 124
Methyl bromide	20.0	17.9		ug/L		89	53 - 128
Methyl chloride	20.0	16.1		ug/L		81	56 - 121
Methylene bromide	20.0	19.5		ug/L		97	80 - 120
Methylene Chloride	20.0	20.6		ug/L		103	80 - 120
Methyl Ethyl Ketone	250	265		ug/L		106	59 - 135
Methyl iodide	20.0	19.9		ug/L		99	73 - 125
Methyl methacrylate	20.0	16.6		ug/L		83	61 - 121
4-Methyl-2-pentanone	250	255		ug/L		102	62 - 133
o-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 120
Propionitrile	150	182		ug/L		121	58 - 151
Styrene	20.0	19.4		ug/L		97	80 - 120
1,1,1,2-Tetrachloroethane	20.0	20.5		ug/L		102	78 - 120
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		98	72 - 120
Tetrachloroethylene	20.0	19.9		ug/L		100	80 - 120
Toluene	20.0	20.3		ug/L		102	80 - 120
trans-1,4-Dichloro-2-butene	100	80.2		ug/L		80	33 - 143
trans-1,2-Dichloroethylene	20.0	19.6		ug/L		98	80 - 126
trans-1,3-Dichloropropene	20.0	18.4		ug/L		92	67 - 120
1,1,1-Trichloroethane	20.0	17.7		ug/L		88	67 - 126
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	80 - 120
Trichloroethylene	20.0	18.8		ug/L		94	80 - 120
Trichlorofluoromethane	20.0	14.5		ug/L		73	55 - 135

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-372515/5
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	19.3		ug/L		97	75 - 124
Vinyl chloride	20.0	16.1		ug/L		81	56 - 120
Xylenes, Total	60.0	59.9		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCS 410-372515/7
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	182		ug/L		121	66 - 149
Pentachloroethane	20.0	19.6		ug/L		98	70 - 120
Vinyl acetate	100	92.7		ug/L		93	63 - 145

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: LCSD 410-372515/6
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	250	261		ug/L		105	54 - 157	12	30
Acrolein	150	175		ug/L		117	47 - 136	8	30
Acrylonitrile	100	98.8		ug/L		99	60 - 129	7	30
Allyl chloride	20.0	20.3		ug/L		102	62 - 122	6	30
Benzene	20.0	19.4		ug/L		97	80 - 120	6	30
Bromochloromethane	20.0	19.3		ug/L		96	80 - 120	5	30
Bromodichloromethane	20.0	17.2		ug/L		86	71 - 120	5	30
Bromoform	20.0	18.1		ug/L		91	51 - 120	3	30
Carbon disulfide	20.0	19.9		ug/L		99	65 - 128	6	30
Carbon tetrachloride	20.0	17.2		ug/L		86	64 - 134	6	30
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120	3	30
2-Chloro-1,3-butadiene	20.0	18.2		ug/L		91	70 - 121	7	30
Chlorodibromomethane	20.0	19.1		ug/L		96	71 - 120	3	30
Chloroethane	20.0	17.7		ug/L		88	55 - 123	7	30
Chloroform	20.0	18.0		ug/L		90	80 - 120	6	30
cis-1,2-Dichloroethylene	20.0	19.3		ug/L		96	80 - 125	8	30
cis-1,3-Dichloropropene	20.0	16.5		ug/L		83	75 - 120	6	30
1,2-Dibromo-3-Chloropropane	20.0	16.2		ug/L		81	47 - 131	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-372515/6
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane			20.0	18.8		ug/L		94	77 - 120	4	30
1,4-Dichlorobenzene			20.0	19.1		ug/L		95	80 - 120	4	30
Dichlorodifluoromethane			20.0	11.5		ug/L		57	41 - 127	4	30
1,2-Dichloroethane			20.0	16.7		ug/L		84	73 - 124	6	30
1,1-Dichloroethane			20.0	19.0		ug/L		95	80 - 120	5	30
1,1-Dichloroethylene			20.0	17.9		ug/L		89	80 - 131	6	30
1,2-Dichloropropane			20.0	19.0		ug/L		95	80 - 120	5	30
1,4-Dioxane			500	568		ug/L		114	63 - 146	4	30
Ethylbenzene			20.0	19.2		ug/L		96	80 - 120	2	30
Ethyl methacrylate			20.0	17.9		ug/L		90	59 - 141	2	30
2-Hexanone			250	261		ug/L		104	56 - 135	4	30
Isobutyl alcohol			500	539		ug/L		108	61 - 136	4	30
Methacrylonitrile			150	139		ug/L		93	73 - 124	7	30
Methyl bromide			20.0	17.5		ug/L		88	53 - 128	2	30
Methyl chloride			20.0	15.1		ug/L		76	56 - 121	6	30
Methylene bromide			20.0	18.2		ug/L		91	80 - 120	7	30
Methylene Chloride			20.0	19.3		ug/L		97	80 - 120	6	30
Methyl Ethyl Ketone			250	236		ug/L		94	59 - 135	12	30
Methyl iodide			20.0	18.7		ug/L		94	73 - 125	6	30
Methyl methacrylate			20.0	16.3		ug/L		82	61 - 121	2	30
4-Methyl-2-pentanone			250	244		ug/L		98	62 - 133	5	30
o-Dichlorobenzene			20.0	18.0		ug/L		90	80 - 120	3	30
Propionitrile			150	158		ug/L		106	58 - 151	14	30
Styrene			20.0	18.7		ug/L		93	80 - 120	4	30
1,1,1,2-Tetrachloroethane			20.0	19.9		ug/L		100	78 - 120	3	30
1,1,2,2-Tetrachloroethane			20.0	18.7		ug/L		93	72 - 120	5	30
Tetrachloroethylene			20.0	19.2		ug/L		96	80 - 120	4	30
Toluene			20.0	19.6		ug/L		98	80 - 120	3	30
trans-1,4-Dichloro-2-butene			100	75.6		ug/L		76	33 - 143	6	30
trans-1,2-Dichloroethylene			20.0	18.8		ug/L		94	80 - 126	4	30
trans-1,3-Dichloropropene			20.0	18.1		ug/L		90	67 - 120	2	30
1,1,1-Trichloroethane			20.0	16.8		ug/L		84	67 - 126	5	30
1,1,2-Trichloroethane			20.0	18.9		ug/L		94	80 - 120	5	30
Trichloroethylene			20.0	17.8		ug/L		89	80 - 120	6	30
Trichlorofluoromethane			20.0	13.7		ug/L		69	55 - 135	6	30
1,2,3-Trichloropropane			20.0	18.0		ug/L		90	75 - 124	7	30
Vinyl chloride			20.0	15.7		ug/L		79	56 - 120	2	30
Xylenes, Total			60.0	57.8		ug/L		96	80 - 120	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 410-372515/8
Matrix: Water
Analysis Batch: 372515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			150	174		ug/L		116	66 - 149	4	30
Pentachloroethane			20.0	18.7		ug/L		93	70 - 120	5	30
Vinyl acetate			100	91.9		ug/L		92	63 - 145	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 410-373596/10
Matrix: Water
Analysis Batch: 373596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	0.70	ug/L			05/09/23 12:28	1
Acrylonitrile	ND		20	1.6	ug/L			05/09/23 12:28	1
Benzene	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Bromochloromethane	ND		5.0	0.20	ug/L			05/09/23 12:28	1
Bromodichloromethane	ND		1.0	0.20	ug/L			05/09/23 12:28	1
Bromoform	ND		4.0	1.0	ug/L			05/09/23 12:28	1
Carbon disulfide	ND		5.0	0.30	ug/L			05/09/23 12:28	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Chlorobenzene	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Chlorodibromomethane	ND		1.0	0.20	ug/L			05/09/23 12:28	1
Chloroethane	ND		1.0	0.20	ug/L			05/09/23 12:28	1
Chloroform	ND		1.0	0.30	ug/L			05/09/23 12:28	1
cis-1,2-Dichloroethylene	ND		1.0	0.30	ug/L			05/09/23 12:28	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/09/23 12:28	1
1,4-Dichlorobenzene	ND		5.0	0.30	ug/L			05/09/23 12:28	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			05/09/23 12:28	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			05/09/23 12:28	1
1,1-Dichloroethylene	ND		1.0	0.30	ug/L			05/09/23 12:28	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Ethylbenzene	ND		1.0	0.40	ug/L			05/09/23 12:28	1
2-Hexanone	ND		10	0.85	ug/L			05/09/23 12:28	1
Methyl bromide	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Methyl chloride	ND		2.0	0.55	ug/L			05/09/23 12:28	1
Methylene bromide	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Methylene Chloride	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Methyl Ethyl Ketone	ND		10	0.50	ug/L			05/09/23 12:28	1
Methyl iodide	ND		1.0	0.30	ug/L			05/09/23 12:28	1
4-Methyl-2-pentanone	ND		10	0.50	ug/L			05/09/23 12:28	1
o-Dichlorobenzene	ND		5.0	0.20	ug/L			05/09/23 12:28	1
Styrene	ND		5.0	0.30	ug/L			05/09/23 12:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/09/23 12:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Tetrachloroethylene	ND		1.0	0.30	ug/L			05/09/23 12:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-373596/10
Matrix: Water
Analysis Batch: 373596

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.20	ug/L			05/09/23 12:28	1
trans-1,4-Dichloro-2-butene	ND		50	6.0	ug/L			05/09/23 12:28	1
trans-1,2-Dichloroethylene	ND		2.0	0.70	ug/L			05/09/23 12:28	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			05/09/23 12:28	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			05/09/23 12:28	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Trichloroethylene	ND		1.0	0.30	ug/L			05/09/23 12:28	1
Trichlorofluoromethane	ND		1.0	0.20	ug/L			05/09/23 12:28	1
Vinyl acetate	ND		10	2.0	ug/L			05/09/23 12:28	1
Vinyl chloride	ND		1.0	0.20	ug/L			05/09/23 12:28	1
Xylenes, Total	ND		1.0	0.40	ug/L			05/09/23 12:28	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*			*N/A*		*05/09/23 12:28*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*05/09/23 12:28*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*		*05/09/23 12:28*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*05/09/23 12:28*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/09/23 12:28*	*1*

Lab Sample ID: LCS 410-373596/5
Matrix: Water
Analysis Batch: 373596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	235		ug/L		94	54 - 157
Acrolein	150	141		ug/L		94	47 - 136
Acrylonitrile	100	104		ug/L		104	60 - 129
Allyl chloride	20.0	20.1		ug/L		100	62 - 122
Benzene	20.0	20.3		ug/L		101	80 - 120
Bromochloromethane	20.0	18.6		ug/L		93	80 - 120
Bromodichloromethane	20.0	17.3		ug/L		87	71 - 120
Bromoform	20.0	15.9		ug/L		80	51 - 120
Carbon disulfide	20.0	19.5		ug/L		98	65 - 128
Carbon tetrachloride	20.0	16.0		ug/L		80	64 - 134
Chlorobenzene	20.0	19.2		ug/L		96	80 - 120
2-Chloro-1,3-butadiene	20.0	18.0		ug/L		90	70 - 121
Chlorodibromomethane	20.0	17.2		ug/L		86	71 - 120
Chloroethane	20.0	17.7		ug/L		89	55 - 123
Chloroform	20.0	17.9		ug/L		90	80 - 120
cis-1,2-Dichloroethylene	20.0	19.4		ug/L		97	80 - 125
cis-1,3-Dichloropropene	20.0	18.6		ug/L		93	75 - 120
1,2-Dibromo-3-Chloropropane	20.0	16.3		ug/L		82	47 - 131
1,2-Dibromoethane	20.0	18.9		ug/L		94	77 - 120
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120
Dichlorodifluoromethane	20.0	8.85		ug/L		44	41 - 127
1,2-Dichloroethane	20.0	16.9		ug/L		84	73 - 124

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-373596/5
Matrix: Water
Analysis Batch: 373596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	20.0	20.3		ug/L		102	80 - 120
1,1-Dichloroethylene	20.0	19.0		ug/L		95	80 - 131
1,2-Dichloropropane	20.0	21.5		ug/L		107	80 - 120
1,4-Dioxane	500	537		ug/L		107	63 - 146
Ethylbenzene	20.0	20.0		ug/L		100	80 - 120
Ethyl methacrylate	20.0	18.8		ug/L		94	59 - 141
2-Hexanone	250	254		ug/L		102	56 - 135
Isobutyl alcohol	500	456		ug/L		91	61 - 136
Methacrylonitrile	150	151		ug/L		101	73 - 124
Methyl bromide	20.0	16.2		ug/L		81	53 - 128
Methyl chloride	20.0	17.1		ug/L		86	56 - 121
Methylene bromide	20.0	18.2		ug/L		91	80 - 120
Methylene Chloride	20.0	19.5		ug/L		97	80 - 120
Methyl Ethyl Ketone	250	248		ug/L		99	59 - 135
Methyl iodide	20.0	16.7		ug/L		84	73 - 125
Methyl methacrylate	20.0	18.6		ug/L		93	61 - 121
4-Methyl-2-pentanone	250	250		ug/L		100	62 - 133
o-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
Propionitrile	150	152		ug/L		101	58 - 151
Styrene	20.0	19.3		ug/L		97	80 - 120
1,1,1,2-Tetrachloroethane	20.0	18.3		ug/L		91	78 - 120
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	72 - 120
Tetrachloroethylene	20.0	19.1		ug/L		95	80 - 120
Toluene	20.0	19.9		ug/L		100	80 - 120
trans-1,4-Dichloro-2-butene	100	70.3		ug/L		70	33 - 143
trans-1,2-Dichloroethylene	20.0	18.3		ug/L		91	80 - 126
trans-1,3-Dichloropropene	20.0	18.5		ug/L		92	67 - 120
1,1,1-Trichloroethane	20.0	17.2		ug/L		86	67 - 126
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	80 - 120
Trichloroethylene	20.0	18.1		ug/L		90	80 - 120
Trichlorofluoromethane	20.0	11.9		ug/L		59	55 - 135
1,2,3-Trichloropropane	20.0	19.1		ug/L		96	75 - 124
Vinyl chloride	20.0	16.5		ug/L		82	56 - 120
Xylenes, Total	60.0	59.6		ug/L		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: LCS 410-373596/6
Matrix: Water
Analysis Batch: 373596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	150	143		ug/L		95	66 - 149
Pentachloroethane	20.0	20.1		ug/L		101	70 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-373596/6
Matrix: Water
Analysis Batch: 373596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Vinyl acetate			100	102		ug/L		102	63 - 145		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCSD 410-373596/7
Matrix: Water
Analysis Batch: 373596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			150	140		ug/L		93	66 - 149	2	30
Pentachloroethane			20.0	18.7		ug/L		93	70 - 120	7	30
Vinyl acetate			100	98.9		ug/L		99	63 - 145	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 200.7 - Dissolved Metals

Lab Sample ID: MB 410-369645/1-A
Matrix: Water
Analysis Batch: 369936

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0052	0.0010	mg/L		04/28/23 04:51	04/28/23 10:30	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 04:51	04/28/23 10:30	1
Arsenic	ND		0.052	0.016	mg/L		04/28/23 04:51	04/28/23 10:30	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 04:51	04/28/23 10:30	1

Lab Sample ID: LCS 410-369645/2-A
Matrix: Water
Analysis Batch: 369936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369645

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Barium			0.500	0.475		mg/L		95	85 - 115		
Silver			0.0500	0.0464		mg/L		93	85 - 115		
Arsenic			0.500	0.486		mg/L		97	85 - 115		
Selenium			0.100	0.0963		mg/L		96	85 - 115		

Method: 200.7 - Dissolved Metals (Continued)

Lab Sample ID: MB 410-369863/1-A
Matrix: Water
Analysis Batch: 370633

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369863

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0052	0.0010	mg/L		04/28/23 11:41	05/01/23 09:48	1
Silver	ND		0.010	0.0041	mg/L		04/28/23 11:41	05/01/23 09:48	1
Arsenic	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 09:48	1
Selenium	ND		0.052	0.016	mg/L		04/28/23 11:41	05/01/23 09:48	1

Lab Sample ID: LCS 410-369863/2-A
Matrix: Water
Analysis Batch: 370633

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369863

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.489		mg/L		98	85 - 115
Silver	0.0500	0.0463		mg/L		93	85 - 115
Arsenic	0.500	0.496		mg/L		99	85 - 115
Selenium	0.100	0.0972		mg/L		97	85 - 115

Lab Sample ID: MB 410-370340/1-A
Matrix: Water
Analysis Batch: 370822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 370340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.0052	0.0010	mg/L		05/01/23 02:33	05/01/23 17:16	1
Silver	ND		0.010	0.0041	mg/L		05/01/23 02:33	05/01/23 17:16	1
Arsenic	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 17:16	1
Selenium	ND		0.052	0.016	mg/L		05/01/23 02:33	05/01/23 17:16	1

Lab Sample ID: LCS 410-370340/2-A
Matrix: Water
Analysis Batch: 370822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 370340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.519		mg/L		104	85 - 115
Silver	0.0500	0.0526		mg/L		105	85 - 115
Arsenic	0.500	0.528		mg/L		106	85 - 115
Selenium	0.100	0.0981		mg/L		98	85 - 115

Lab Sample ID: 630-59801-14 MS
Matrix: Leachate
Analysis Batch: 369936

Client Sample ID: LEACHATE SUMP 7
Prep Type: Dissolved
Prep Batch: 369645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.081		0.500	0.567		mg/L		97	70 - 130
Silver	ND		0.0500	0.0407		mg/L		81	70 - 130
Arsenic	ND		0.500	0.502		mg/L		100	70 - 130
Selenium	ND		0.100	0.0955		mg/L		96	70 - 130

Method: 200.7 - Dissolved Metals (Continued)

Lab Sample ID: 630-59801-14 MSD
Matrix: Leachate
Analysis Batch: 369936

Client Sample ID: LEACHATE SUMP 7
Prep Type: Dissolved
Prep Batch: 369645

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.081		0.500	0.567		mg/L		97	70 - 130	0	20
Silver	ND		0.0500	0.0425		mg/L		85	70 - 130	4	20
Arsenic	ND		0.500	0.515		mg/L		103	70 - 130	3	20
Selenium	ND		0.100	0.0999		mg/L		100	70 - 130	4	20

Lab Sample ID: 630-59801-14 DU
Matrix: Leachate
Analysis Batch: 369936

Client Sample ID: LEACHATE SUMP 7
Prep Type: Dissolved
Prep Batch: 369645

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Barium	0.081		0.0792		mg/L		3	20
Silver	ND		ND		mg/L		NC	20
Arsenic	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 410-369871/1-A
Matrix: Water
Analysis Batch: 371218

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 10:46	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 10:46	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 10:46	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 11:53	05/02/23 10:46	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 11:53	05/02/23 10:46	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 11:53	05/02/23 10:46	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 11:53	05/02/23 10:46	1
Nickel	ND		0.010	0.0021	mg/L		04/28/23 11:53	05/02/23 10:46	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 11:53	05/02/23 10:46	1
Zinc	ND		0.020	0.0037	mg/L		04/28/23 11:53	05/02/23 10:46	1
Barium	ND		0.0050	0.0010	mg/L		04/28/23 11:53	05/02/23 10:46	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 11:53	05/02/23 10:46	1
Arsenic	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 10:46	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 11:53	05/02/23 10:46	1

Lab Sample ID: LCS 410-369871/2-A
Matrix: Water
Analysis Batch: 371218

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.103		mg/L		103	85 - 115
Beryllium	0.0500	0.0484		mg/L		97	85 - 115
Cadmium	0.0500	0.0502		mg/L		100	85 - 115
Chromium	0.500	0.496		mg/L		99	85 - 115
Cobalt	0.500	0.499		mg/L		100	85 - 115
Copper	0.500	0.492		mg/L		98	85 - 115
Lead	0.0500	0.0506		mg/L		101	85 - 115

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-369871/2-A
Matrix: Water
Analysis Batch: 371218

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.500	0.494		mg/L		99	85 - 115
Vanadium	0.500	0.502		mg/L		100	85 - 115
Zinc	0.500	0.493		mg/L		99	85 - 115
Barium	0.500	0.496		mg/L		99	85 - 115
Silver	0.0500	0.0483		mg/L		97	85 - 115
Arsenic	0.500	0.513		mg/L		103	85 - 115
Selenium	0.100	0.0973		mg/L		97	85 - 115

Lab Sample ID: MB 410-369872/1-A
Matrix: Water
Analysis Batch: 370633

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 08:38	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 08:38	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 08:38	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 11:56	05/01/23 08:38	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 11:56	05/01/23 08:38	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 11:56	05/01/23 08:38	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 11:56	05/01/23 08:38	1
Nickel	ND		0.010	0.0021	mg/L		04/28/23 11:56	05/01/23 08:38	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 11:56	05/01/23 08:38	1
Zinc	ND		0.020	0.0037	mg/L		04/28/23 11:56	05/01/23 08:38	1
Barium	ND		0.0050	0.0010	mg/L		04/28/23 11:56	05/01/23 08:38	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 11:56	05/01/23 08:38	1
Arsenic	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 08:38	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 11:56	05/01/23 08:38	1

Lab Sample ID: LCS 410-369872/2-A
Matrix: Water
Analysis Batch: 370633

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.101		mg/L		101	85 - 115
Beryllium	0.0500	0.0505		mg/L		101	85 - 115
Cadmium	0.0500	0.0530		mg/L		106	85 - 115
Chromium	0.500	0.532		mg/L		106	85 - 115
Cobalt	0.500	0.521		mg/L		104	85 - 115
Copper	0.500	0.512		mg/L		102	85 - 115
Lead	0.0500	0.0536		mg/L		107	85 - 115
Nickel	0.500	0.526		mg/L		105	85 - 115
Vanadium	0.500	0.515		mg/L		103	85 - 115
Zinc	0.500	0.523		mg/L		105	85 - 115
Barium	0.500	0.513		mg/L		103	85 - 115
Silver	0.0500	0.0492		mg/L		98	85 - 115
Arsenic	0.500	0.541		mg/L		108	85 - 115
Selenium	0.100	0.109		mg/L		109	85 - 115

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 410-369873/1-A
Matrix: Water
Analysis Batch: 371218

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.050	0.016	mg/L		04/28/23 12:01	05/02/23 11:55	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 12:01	05/02/23 11:55	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 12:01	05/02/23 11:55	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 12:01	05/02/23 11:55	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 12:01	05/02/23 11:55	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 12:01	05/02/23 11:55	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 12:01	05/02/23 11:55	1
Nickel	ND		0.010	0.0021	mg/L		04/28/23 12:01	05/02/23 11:55	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 12:01	05/02/23 11:55	1
Zinc	ND		0.020	0.0037	mg/L		04/28/23 12:01	05/02/23 11:55	1
Barium	ND		0.0050	0.0010	mg/L		04/28/23 12:01	05/02/23 11:55	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 12:01	05/02/23 11:55	1
Arsenic	ND		0.050	0.016	mg/L		04/28/23 12:01	05/02/23 11:55	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 12:01	05/02/23 11:55	1

Lab Sample ID: LCS 410-369873/2-A
Matrix: Water
Analysis Batch: 371218

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.103		mg/L		103	85 - 115
Beryllium	0.0500	0.0487		mg/L		97	85 - 115
Cadmium	0.0500	0.0505		mg/L		101	85 - 115
Chromium	0.500	0.497		mg/L		99	85 - 115
Cobalt	0.500	0.503		mg/L		101	85 - 115
Copper	0.500	0.493		mg/L		99	85 - 115
Lead	0.0500	0.0493		mg/L		99	85 - 115
Nickel	0.500	0.497		mg/L		99	85 - 115
Vanadium	0.500	0.501		mg/L		100	85 - 115
Zinc	0.500	0.497		mg/L		99	85 - 115
Barium	0.500	0.499		mg/L		100	85 - 115
Silver	0.0500	0.0480		mg/L		96	85 - 115
Arsenic	0.500	0.509		mg/L		102	85 - 115
Selenium	0.100	0.0960		mg/L		96	85 - 115

Lab Sample ID: 630-59801-2 MS
Matrix: Leachate
Analysis Batch: 371218

Client Sample ID: LEACHATE SUMP 10
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.100	0.101		mg/L		101	70 - 130
Beryllium	ND		0.0500	0.0489		mg/L		98	70 - 130
Cadmium	ND		0.0500	0.0508		mg/L		102	70 - 130
Chromium	ND		0.500	0.502		mg/L		100	70 - 130
Cobalt	ND		0.500	0.506		mg/L		101	70 - 130
Copper	ND		0.500	0.498		mg/L		100	70 - 130
Lead	ND		0.0500	0.0503		mg/L		101	70 - 130
Nickel	0.0033	J	0.500	0.507		mg/L		101	70 - 130
Vanadium	ND		0.500	0.506		mg/L		101	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 630-59801-2 MS
Matrix: Leachate
Analysis Batch: 371218

Client Sample ID: LEACHATE SUMP 10
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.083		0.500	0.589		mg/L		101	70 - 130
Barium	0.063		0.500	0.564		mg/L		100	70 - 130
Silver	ND		0.0500	0.0489		mg/L		98	70 - 130
Arsenic	ND		0.500	0.518		mg/L		104	70 - 130
Selenium	ND		0.100	0.103		mg/L		103	70 - 130

Lab Sample ID: 630-59801-2 DU
Matrix: Leachate
Analysis Batch: 371218

Client Sample ID: LEACHATE SUMP 10
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Cobalt	ND		ND		mg/L		NC	20
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.0033	J	0.00300	J	mg/L		9	20
Vanadium	ND		ND		mg/L		NC	20
Zinc	0.083		0.0824		mg/L		0.4	20
Barium	0.063		0.0629		mg/L		0.2	20
Silver	ND		ND		mg/L		NC	20
Arsenic	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20

Lab Sample ID: MB 410-369964/1-A
Matrix: Water
Analysis Batch: 371490

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 03:31	1
Beryllium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 03:31	1
Cadmium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 03:31	1
Chromium	ND		0.015	0.0030	mg/L		04/28/23 14:52	05/03/23 03:31	1
Cobalt	ND		0.0050	0.0015	mg/L		04/28/23 14:52	05/03/23 03:31	1
Copper	ND		0.020	0.0080	mg/L		04/28/23 14:52	05/03/23 03:31	1
Lead	ND		0.015	0.0071	mg/L		04/28/23 14:52	05/03/23 03:31	1
Nickel	ND		0.010	0.0021	mg/L		04/28/23 14:52	05/03/23 03:31	1
Vanadium	ND		0.010	0.0019	mg/L		04/28/23 14:52	05/03/23 03:31	1
Zinc	ND		0.020	0.0037	mg/L		04/28/23 14:52	05/03/23 03:31	1
Barium	ND		0.0050	0.0010	mg/L		04/28/23 14:52	05/03/23 03:31	1
Silver	ND		0.010	0.0040	mg/L		04/28/23 14:52	05/03/23 03:31	1
Selenium	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 03:31	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 410-369964/1-A
Matrix: Water
Analysis Batch: 371953

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050	0.016	mg/L		04/28/23 14:52	05/03/23 14:16	1

Lab Sample ID: LCS 410-369964/2-A
Matrix: Water
Analysis Batch: 371490

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.106		mg/L		106	85 - 115
Beryllium	0.0500	0.0503		mg/L		101	85 - 115
Cadmium	0.0500	0.0512		mg/L		102	85 - 115
Chromium	0.500	0.501		mg/L		100	85 - 115
Cobalt	0.500	0.527		mg/L		105	85 - 115
Copper	0.500	0.522		mg/L		104	85 - 115
Lead	0.0500	0.0546		mg/L		109	85 - 115
Nickel	0.500	0.540		mg/L		108	85 - 115
Vanadium	0.500	0.503		mg/L		101	85 - 115
Zinc	0.500	0.523		mg/L		105	85 - 115
Barium	0.500	0.531		mg/L		106	85 - 115
Silver	0.0500	0.0552		mg/L		110	85 - 115
Selenium	0.100	0.104		mg/L		104	85 - 115

Lab Sample ID: LCS 410-369964/2-A
Matrix: Water
Analysis Batch: 371953

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.500	0.524		mg/L		105	85 - 115

Lab Sample ID: 630-59801-7 MS
Matrix: Leachate
Analysis Batch: 371490

Client Sample ID: LEACHATE SUMP 15
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		0.100	0.116		mg/L		116	70 - 130
Beryllium	ND		0.0500	0.0530		mg/L		106	70 - 130
Cadmium	ND		0.0500	0.0486		mg/L		97	70 - 130
Chromium	0.10		0.500	0.604		mg/L		100	70 - 130
Cobalt	0.017		0.500	0.511		mg/L		99	70 - 130
Copper	0.043		0.500	0.578		mg/L		107	70 - 130
Lead	ND		0.0500	0.0520		mg/L		104	70 - 130
Nickel	0.12		0.500	0.620		mg/L		100	70 - 130
Vanadium	0.012		0.500	0.534		mg/L		104	70 - 130
Zinc	0.38		0.500	0.928		mg/L		110	70 - 130
Barium	0.16		0.500	0.654		mg/L		98	70 - 130
Silver	ND		0.0500	0.0589		mg/L		118	70 - 130
Selenium	ND		0.100	0.122		mg/L		122	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 630-59801-7 MS
Matrix: Leachate
Analysis Batch: 371953

Client Sample ID: LEACHATE SUMP 15
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.036	J	0.500	0.595		mg/L		112	70 - 130

Lab Sample ID: 630-59801-7 DU
Matrix: Leachate
Analysis Batch: 371490

Client Sample ID: LEACHATE SUMP 15
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	ND		ND		mg/L		NC	20
Beryllium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	0.10		0.102		mg/L		0.2	20
Cobalt	0.017		0.0166		mg/L		2	20
Copper	0.043		0.0440		mg/L		2	20
Lead	ND		ND		mg/L		NC	20
Nickel	0.12		0.126		mg/L		3	20
Vanadium	0.012		0.0109		mg/L		8	20
Zinc	0.38		0.387		mg/L		2	20
Barium	0.16		0.166		mg/L		2	20
Silver	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20

Lab Sample ID: 630-59801-7 DU
Matrix: Leachate
Analysis Batch: 371953

Client Sample ID: LEACHATE SUMP 15
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.036	J	0.0309	J	mg/L		15	20

Lab Sample ID: MB 410-371276/1-A
Matrix: Water
Analysis Batch: 371491

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 371276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.050	0.016	mg/L		05/02/23 19:02	05/03/23 06:30	1
Beryllium	ND		0.0050	0.0010	mg/L		05/02/23 19:02	05/03/23 06:30	1
Cadmium	ND		0.0050	0.0010	mg/L		05/02/23 19:02	05/03/23 06:30	1
Chromium	ND		0.015	0.0030	mg/L		05/02/23 19:02	05/03/23 06:30	1
Cobalt	ND		0.0050	0.0015	mg/L		05/02/23 19:02	05/03/23 06:30	1
Copper	ND		0.020	0.0080	mg/L		05/02/23 19:02	05/03/23 06:30	1
Lead	ND		0.015	0.0071	mg/L		05/02/23 19:02	05/03/23 06:30	1
Nickel	ND		0.010	0.0021	mg/L		05/02/23 19:02	05/03/23 06:30	1
Vanadium	ND		0.010	0.0019	mg/L		05/02/23 19:02	05/03/23 06:30	1
Zinc	ND		0.020	0.0037	mg/L		05/02/23 19:02	05/03/23 06:30	1
Barium	ND		5.0	1.0	ug/L		05/02/23 19:02	05/03/23 06:30	1
Silver	ND		10	4.0	ug/L		05/02/23 19:02	05/03/23 06:30	1
Arsenic	ND		50	16	ug/L		05/02/23 19:02	05/03/23 06:30	1
Selenium	ND		50	16	ug/L		05/02/23 19:02	05/03/23 06:30	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-371276/2-A
Matrix: Water
Analysis Batch: 371491

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 371276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.100	0.101		mg/L		101	85 - 115
Beryllium	0.0500	0.0498		mg/L		100	85 - 115
Cadmium	0.0500	0.0520		mg/L		104	85 - 115
Chromium	0.500	0.523		mg/L		105	85 - 115
Cobalt	0.500	0.510		mg/L		102	85 - 115
Copper	0.500	0.504		mg/L		101	85 - 115
Lead	0.0500	0.0523		mg/L		105	85 - 115
Nickel	0.500	0.517		mg/L		103	85 - 115
Vanadium	0.500	0.504		mg/L		101	85 - 115
Zinc	0.500	0.515		mg/L		103	85 - 115
Barium	500	503		ug/L		101	85 - 115
Silver	50.0	45.6		ug/L		91	85 - 115
Arsenic	500	526		ug/L		105	85 - 115
Selenium	100	101		ug/L		101	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-369871/1-A
Matrix: Water
Analysis Batch: 373504

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 11:53	05/08/23 17:07	1

Lab Sample ID: LCS 410-369871/2-A
Matrix: Water
Analysis Batch: 373504

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	100	106		ug/L		106	85 - 115

Lab Sample ID: MB 410-369872/1-A
Matrix: Water
Analysis Batch: 373504

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 11:56	05/08/23 17:21	1

Lab Sample ID: LCS 410-369872/2-A
Matrix: Water
Analysis Batch: 373504

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	100	109		ug/L		109	85 - 115

Method: 200.8 Rev 5.4 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-369873/1-A
Matrix: Water
Analysis Batch: 371322

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 12:01	05/02/23 18:48	1

Lab Sample ID: LCS 410-369873/2-A
Matrix: Water
Analysis Batch: 371322

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	100	102		ug/L		102	85 - 115

Lab Sample ID: 630-59801-2 MS
Matrix: Leachate
Analysis Batch: 371322

Client Sample ID: LEACHATE SUMP 10
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	ND		100	101		ug/L		101	70 - 130

Lab Sample ID: 630-59801-2 DU
Matrix: Leachate
Analysis Batch: 371322

Client Sample ID: LEACHATE SUMP 10
Prep Type: Total Recoverable
Prep Batch: 369873

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	ND		ND		ug/L		NC	20

Lab Sample ID: MB 410-369964/1-A
Matrix: Water
Analysis Batch: 373312

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		04/28/23 14:52	05/08/23 11:10	1

Lab Sample ID: LCS 410-369964/2-A
Matrix: Water
Analysis Batch: 373312

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	100	103		ug/L		103	85 - 115

Lab Sample ID: 630-59801-7 MS
Matrix: Leachate
Analysis Batch: 373312

Client Sample ID: LEACHATE SUMP 15
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.24	J	100	105		ug/L		105	70 - 130

Lab Sample ID: 630-59801-7 DU
Matrix: Leachate
Analysis Batch: 373312

Client Sample ID: LEACHATE SUMP 15
Prep Type: Total Recoverable
Prep Batch: 369964

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Thallium	0.24	J	ND		ug/L		NC	20

Method: 200.8 Rev 5.4 - Metals (ICP/MS)

Lab Sample ID: MB 410-371276/1-A
Matrix: Water
Analysis Batch: 373504

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 371276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.50	0.13	ug/L		05/02/23 19:02	05/08/23 16:41	1

Lab Sample ID: LCS 410-371276/2-A
Matrix: Water
Analysis Batch: 373504

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 371276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	100	105		ug/L		105	85 - 115

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 410-369925/17
Matrix: Water
Analysis Batch: 369925

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/28/23 09:39	1

Lab Sample ID: MB 410-369925/52
Matrix: Water
Analysis Batch: 369925

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia, Dissolved	ND		0.10	0.050	mg/L			04/28/23 10:52	1

Lab Sample ID: LCS 410-369925/15
Matrix: Water
Analysis Batch: 369925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Dissolved	3.00	2.95		mg/L		98	90 - 110

Lab Sample ID: LCS 410-369925/50
Matrix: Water
Analysis Batch: 369925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia, Dissolved	3.00	3.12		mg/L		104	90 - 110

Lab Sample ID: LCSD 410-369925/16
Matrix: Water
Analysis Batch: 369925

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, Dissolved	3.00	2.93		mg/L		98	90 - 110	1	15

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 410-369925/51
Matrix: Water
Analysis Batch: 369925

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia, Dissolved			3.00	3.11		mg/L		104	90 - 110	1	15

Method: EPA 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 410-368779/17
Matrix: Water
Analysis Batch: 368779

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.050	mg/L			04/26/23 09:57	1

Lab Sample ID: LCS 410-368779/15
Matrix: Water
Analysis Batch: 368779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			3.00	3.01		mg/L		100	90 - 110		

Lab Sample ID: LCSD 410-368779/16
Matrix: Water
Analysis Batch: 368779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N			3.00	2.99		mg/L		100	90 - 110	1	15

Lab Sample ID: MB 410-369416/17
Matrix: Water
Analysis Batch: 369416

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.050	mg/L			04/27/23 09:52	1

Lab Sample ID: MB 410-369416/52
Matrix: Water
Analysis Batch: 369416

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	ND		0.10	0.050	mg/L			04/27/23 11:05	1

Lab Sample ID: LCS 410-369416/15
Matrix: Water
Analysis Batch: 369416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			3.00	3.02		mg/L		101	90 - 110		

Method: EPA 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 410-369416/50
Matrix: Water
Analysis Batch: 369416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia as N			3.00	3.16		mg/L		105	90 - 110		

Lab Sample ID: LCSD 410-369416/16
Matrix: Water
Analysis Batch: 369416

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N			3.00	3.10		mg/L		103	90 - 110	2	15

Lab Sample ID: LCSD 410-369416/51
Matrix: Water
Analysis Batch: 369416

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia as N			3.00	3.22		mg/L		107	90 - 110	2	15

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 410-369040/63
Matrix: Water
Analysis Batch: 369040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			04/26/23 17:16	1

Lab Sample ID: MB 410-369040/91
Matrix: Water
Analysis Batch: 369040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		5.0	1.7	umhos/cm			04/26/23 17:57	1

Lab Sample ID: LCS 410-369040/64
Matrix: Water
Analysis Batch: 369040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1410		umhos/cm		100	90 - 110		

Lab Sample ID: LCS 410-369040/92
Matrix: Water
Analysis Batch: 369040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Specific Conductance			1410	1410		umhos/cm		100	90 - 110		

Method: SM 2510B - Conductivity, Specific Conductance (Continued)

Lab Sample ID: 630-59801-3 DU
Matrix: Leachate
Analysis Batch: 369040

Client Sample ID: LEACHATE SUMP 11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	17000			17200		umhos/cm				0.9	10

Lab Sample ID: 630-59801-7 DU
Matrix: Leachate
Analysis Batch: 369040

Client Sample ID: LEACHATE SUMP 15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Conductance	8100			8140		umhos/cm				0.6	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 410-367570/1
Matrix: Water
Analysis Batch: 367570

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			04/24/23 07:09	1

Lab Sample ID: LCS 410-367570/2
Matrix: Water
Analysis Batch: 367570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			200	202		mg/L		101	90 - 110		

Lab Sample ID: MB 410-368098/1
Matrix: Water
Analysis Batch: 368098

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			04/25/23 06:55	1

Lab Sample ID: LCS 410-368098/2
Matrix: Water
Analysis Batch: 368098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			200	214		mg/L		107	90 - 110		

Lab Sample ID: MB 410-368611/1
Matrix: Water
Analysis Batch: 368611

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		30	12	mg/L			04/26/23 06:50	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 410-368611/2
Matrix: Water
Analysis Batch: 368611

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	200	195		mg/L		98	90 - 110

Lab Sample ID: 630-59801-14 MS
Matrix: Leachate
Analysis Batch: 368611

Client Sample ID: LEACHATE SUMP 7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	460		800	1200		mg/L		93	90 - 110

Lab Sample ID: 630-59801-13 DU
Matrix: Leachate
Analysis Batch: 368611

Client Sample ID: LEACHATE SUMP 6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2100		2120		mg/L		3	10

Lab Sample ID: 630-59801-14 DU
Matrix: Leachate
Analysis Batch: 368611

Client Sample ID: LEACHATE SUMP 7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	460		472		mg/L		3	10

GC/MS VOA

Analysis Batch: 368844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total/NA	Leachate	624.1	
630-59801-2	LEACHATE SUMP 10	Total/NA	Leachate	624.1	
630-59801-3	LEACHATE SUMP 11	Total/NA	Leachate	624.1	
MB 410-368844/5	Method Blank	Total/NA	Water	624.1	
LCS 410-368844/1003	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 369799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-4	LEACHATE SUMP 12	Total/NA	Leachate	624.1	
630-59801-6	LEACHATE SUMP 14	Total/NA	Leachate	624.1	
630-59801-7	LEACHATE SUMP 15	Total/NA	Leachate	624.1	
MB 410-369799/5	Method Blank	Total/NA	Water	624.1	
LCS 410-369799/1003	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 369826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-8	LEACHATE SUMP 16	Total/NA	Leachate	624.1	
630-59801-11	LEACHATE SUMP 4	Total/NA	Leachate	624.1	
630-59801-12	LEACHATE SUMP 5	Total/NA	Leachate	624.1	
630-59801-13	LEACHATE SUMP 6	Total/NA	Leachate	624.1	
630-59801-14	LEACHATE SUMP 7	Total/NA	Leachate	624.1	
630-59801-15	LEACHATE SUMP 8	Total/NA	Leachate	624.1	
630-59801-17	FIELD BLANK	Total/NA	Water	624.1	
630-59801-18	TRIP BLANK	Total/NA	Water	624.1	
MB 410-369826/5	Method Blank	Total/NA	Water	624.1	
LCS 410-369826/1003	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 372515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total/NA	Leachate	8260D	
630-59801-2	LEACHATE SUMP 10	Total/NA	Leachate	8260D	
630-59801-3	LEACHATE SUMP 11	Total/NA	Leachate	8260D	
630-59801-4	LEACHATE SUMP 12	Total/NA	Leachate	8260D	
630-59801-6	LEACHATE SUMP 14	Total/NA	Leachate	8260D	
630-59801-7	LEACHATE SUMP 15	Total/NA	Leachate	8260D	
630-59801-8	LEACHATE SUMP 16	Total/NA	Leachate	8260D	
630-59801-11	LEACHATE SUMP 4	Total/NA	Leachate	8260D	
630-59801-12	LEACHATE SUMP 5	Total/NA	Leachate	8260D	
630-59801-13	LEACHATE SUMP 6	Total/NA	Leachate	8260D	
630-59801-14	LEACHATE SUMP 7	Total/NA	Leachate	8260D	
630-59801-15	LEACHATE SUMP 8	Total/NA	Leachate	8260D	
MB 410-372515/11	Method Blank	Total/NA	Water	8260D	
LCS 410-372515/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-372515/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-372515/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 410-372515/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 373596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-17	FIELD BLANK	Total/NA	Water	8260D	
MB 410-373596/10	Method Blank	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 373596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-373596/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-373596/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-373596/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Metals

Prep Batch: 369645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-14	LEACHATE SUMP 7	Dissolved	Leachate	Non-Digest Prep	
630-59801-17	FIELD BLANK	Dissolved	Water	Non-Digest Prep	
MB 410-369645/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-369645/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
630-59801-14 MS	LEACHATE SUMP 7	Dissolved	Leachate	Non-Digest Prep	
630-59801-14 MSD	LEACHATE SUMP 7	Dissolved	Leachate	Non-Digest Prep	
630-59801-14 DU	LEACHATE SUMP 7	Dissolved	Leachate	Non-Digest Prep	

Prep Batch: 369863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-2	LEACHATE SUMP 10	Dissolved	Leachate	Non-Digest Prep	
630-59801-4	LEACHATE SUMP 12	Dissolved	Leachate	Non-Digest Prep	
630-59801-6	LEACHATE SUMP 14	Dissolved	Leachate	Non-Digest Prep	
630-59801-7	LEACHATE SUMP 15	Dissolved	Leachate	Non-Digest Prep	
MB 410-369863/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-369863/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 369871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-8	LEACHATE SUMP 16	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-17	FIELD BLANK	Total Recoverable	Water	200.8 Rev 5.4	
MB 410-369871/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-369871/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 369872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-4	LEACHATE SUMP 12	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-6	LEACHATE SUMP 14	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-14	LEACHATE SUMP 7	Total Recoverable	Leachate	200.8 Rev 5.4	
MB 410-369872/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-369872/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Prep Batch: 369873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-2	LEACHATE SUMP 10	Total Recoverable	Leachate	200.8 Rev 5.4	
MB 410-369873/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-369873/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	
630-59801-2 MS	LEACHATE SUMP 10	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-2 DU	LEACHATE SUMP 10	Total Recoverable	Leachate	200.8 Rev 5.4	

Analysis Batch: 369936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-14	LEACHATE SUMP 7	Dissolved	Leachate	200.7	369645

Metals (Continued)

Analysis Batch: 369936 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-17	FIELD BLANK	Dissolved	Water	200.7	369645
MB 410-369645/1-A	Method Blank	Total/NA	Water	200.7	369645
LCS 410-369645/2-A	Lab Control Sample	Total/NA	Water	200.7	369645
630-59801-14 MS	LEACHATE SUMP 7	Dissolved	Leachate	200.7	369645
630-59801-14 MSD	LEACHATE SUMP 7	Dissolved	Leachate	200.7	369645
630-59801-14 DU	LEACHATE SUMP 7	Dissolved	Leachate	200.7	369645

Prep Batch: 369964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-7	LEACHATE SUMP 15	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-11	LEACHATE SUMP 4	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-12	LEACHATE SUMP 5	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-13	LEACHATE SUMP 6	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-15	LEACHATE SUMP 8	Total Recoverable	Leachate	200.8 Rev 5.4	
MB 410-369964/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-369964/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	
630-59801-7 MS	LEACHATE SUMP 15	Total Recoverable	Leachate	200.8 Rev 5.4	
630-59801-7 DU	LEACHATE SUMP 15	Total Recoverable	Leachate	200.8 Rev 5.4	

Prep Batch: 370340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Dissolved	Leachate	Non-Digest Prep	
630-59801-8	LEACHATE SUMP 16	Dissolved	Leachate	Non-Digest Prep	
630-59801-11	LEACHATE SUMP 4	Dissolved	Leachate	Non-Digest Prep	
630-59801-12	LEACHATE SUMP 5	Dissolved	Leachate	Non-Digest Prep	
630-59801-13	LEACHATE SUMP 6	Dissolved	Leachate	Non-Digest Prep	
630-59801-15	LEACHATE SUMP 8	Dissolved	Leachate	Non-Digest Prep	
MB 410-370340/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-370340/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 370633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-2	LEACHATE SUMP 10	Dissolved	Leachate	200.7	369863
630-59801-4	LEACHATE SUMP 12	Dissolved	Leachate	200.7	369863
630-59801-4	LEACHATE SUMP 12	Total Recoverable	Leachate	200.7 Rev 4.4	369872
630-59801-6	LEACHATE SUMP 14	Dissolved	Leachate	200.7	369863
630-59801-6	LEACHATE SUMP 14	Total Recoverable	Leachate	200.7 Rev 4.4	369872
630-59801-7	LEACHATE SUMP 15	Dissolved	Leachate	200.7	369863
630-59801-14	LEACHATE SUMP 7	Total Recoverable	Leachate	200.7 Rev 4.4	369872
MB 410-369863/1-A	Method Blank	Total/NA	Water	200.7	369863
MB 410-369872/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	369872
LCS 410-369863/2-A	Lab Control Sample	Total/NA	Water	200.7	369863
LCS 410-369872/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	369872

Analysis Batch: 370822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Dissolved	Leachate	200.7	370340
630-59801-8	LEACHATE SUMP 16	Dissolved	Leachate	200.7	370340
630-59801-11	LEACHATE SUMP 4	Dissolved	Leachate	200.7	370340
630-59801-12	LEACHATE SUMP 5	Dissolved	Leachate	200.7	370340

Metals (Continued)

Analysis Batch: 370822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-13	LEACHATE SUMP 6	Dissolved	Leachate	200.7	370340
630-59801-15	LEACHATE SUMP 8	Dissolved	Leachate	200.7	370340
MB 410-370340/1-A	Method Blank	Total/NA	Water	200.7	370340
LCS 410-370340/2-A	Lab Control Sample	Total/NA	Water	200.7	370340

Analysis Batch: 371218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-2	LEACHATE SUMP 10	Total Recoverable	Leachate	200.7 Rev 4.4	369873
630-59801-8	LEACHATE SUMP 16	Total Recoverable	Leachate	200.7 Rev 4.4	369871
630-59801-17	FIELD BLANK	Total Recoverable	Water	200.7 Rev 4.4	369871
MB 410-369871/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	369871
MB 410-369873/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	369873
LCS 410-369871/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	369871
LCS 410-369873/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	369873
630-59801-2 MS	LEACHATE SUMP 10	Total Recoverable	Leachate	200.7 Rev 4.4	369873
630-59801-2 DU	LEACHATE SUMP 10	Total Recoverable	Leachate	200.7 Rev 4.4	369873

Prep Batch: 371276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-3	LEACHATE SUMP 11	Dissolved	Leachate	200.7 Rev 4.4	
630-59801-3	LEACHATE SUMP 11	Total Recoverable	Leachate	200.8 Rev 5.4	
MB 410-371276/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	
LCS 410-371276/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	

Analysis Batch: 371322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-2	LEACHATE SUMP 10	Total Recoverable	Leachate	200.8 Rev 5.4	369873
MB 410-369873/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	369873
LCS 410-369873/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	369873
630-59801-2 MS	LEACHATE SUMP 10	Total Recoverable	Leachate	200.8 Rev 5.4	369873
630-59801-2 DU	LEACHATE SUMP 10	Total Recoverable	Leachate	200.8 Rev 5.4	369873

Analysis Batch: 371490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-7	LEACHATE SUMP 15	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-11	LEACHATE SUMP 4	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-12	LEACHATE SUMP 5	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-13	LEACHATE SUMP 6	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-15	LEACHATE SUMP 8	Total Recoverable	Leachate	200.7 Rev 4.4	369964
MB 410-369964/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	369964
LCS 410-369964/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	369964
630-59801-7 MS	LEACHATE SUMP 15	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-7 DU	LEACHATE SUMP 15	Total Recoverable	Leachate	200.7 Rev 4.4	369964

Analysis Batch: 371491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-3	LEACHATE SUMP 11	Dissolved	Leachate	200.7 Rev 4.4	371276
630-59801-3	LEACHATE SUMP 11	Total Recoverable	Leachate	200.7 Rev 4.4	371276
MB 410-371276/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	371276
LCS 410-371276/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	371276

Metals

Analysis Batch: 371953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-7	LEACHATE SUMP 15	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-11	LEACHATE SUMP 4	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-12	LEACHATE SUMP 5	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-13	LEACHATE SUMP 6	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-15	LEACHATE SUMP 8	Total Recoverable	Leachate	200.7 Rev 4.4	369964
MB 410-369964/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	369964
LCS 410-369964/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	369964
630-59801-7 MS	LEACHATE SUMP 15	Total Recoverable	Leachate	200.7 Rev 4.4	369964
630-59801-7 DU	LEACHATE SUMP 15	Total Recoverable	Leachate	200.7 Rev 4.4	369964

Analysis Batch: 373312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total Recoverable	Leachate	200.8 Rev 5.4	369964
630-59801-7	LEACHATE SUMP 15	Total Recoverable	Leachate	200.8 Rev 5.4	369964
630-59801-11	LEACHATE SUMP 4	Total Recoverable	Leachate	200.8 Rev 5.4	369964
630-59801-12	LEACHATE SUMP 5	Total Recoverable	Leachate	200.8 Rev 5.4	369964
630-59801-13	LEACHATE SUMP 6	Total Recoverable	Leachate	200.8 Rev 5.4	369964
630-59801-15	LEACHATE SUMP 8	Total Recoverable	Leachate	200.8 Rev 5.4	369964
MB 410-369964/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	369964
LCS 410-369964/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	369964
630-59801-7 MS	LEACHATE SUMP 15	Total Recoverable	Leachate	200.8 Rev 5.4	369964
630-59801-7 DU	LEACHATE SUMP 15	Total Recoverable	Leachate	200.8 Rev 5.4	369964

Analysis Batch: 373504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-3	LEACHATE SUMP 11	Total Recoverable	Leachate	200.8 Rev 5.4	371276
630-59801-4	LEACHATE SUMP 12	Total Recoverable	Leachate	200.8 Rev 5.4	369872
630-59801-6	LEACHATE SUMP 14	Total Recoverable	Leachate	200.8 Rev 5.4	369872
630-59801-8	LEACHATE SUMP 16	Total Recoverable	Leachate	200.8 Rev 5.4	369871
630-59801-14	LEACHATE SUMP 7	Total Recoverable	Leachate	200.8 Rev 5.4	369872
630-59801-17	FIELD BLANK	Total Recoverable	Water	200.8 Rev 5.4	369871
MB 410-369871/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	369871
MB 410-369872/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	369872
MB 410-371276/1-A	Method Blank	Total Recoverable	Water	200.8 Rev 5.4	371276
LCS 410-369871/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	369871
LCS 410-369872/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	369872
LCS 410-371276/2-A	Lab Control Sample	Total Recoverable	Water	200.8 Rev 5.4	371276

General Chemistry

Analysis Batch: 367570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-2	LEACHATE SUMP 10	Total/NA	Leachate	SM 2540C	
630-59801-4	LEACHATE SUMP 12	Total/NA	Leachate	SM 2540C	
630-59801-17	FIELD BLANK	Total/NA	Water	SM 2540C	
MB 410-367570/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 410-367570/2	Lab Control Sample	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 368098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total/NA	Leachate	SM 2540C	
630-59801-3	LEACHATE SUMP 11	Total/NA	Leachate	SM 2540C	
630-59801-6	LEACHATE SUMP 14	Total/NA	Leachate	SM 2540C	
630-59801-7	LEACHATE SUMP 15	Total/NA	Leachate	SM 2540C	
MB 410-368098/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 410-368098/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 368611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-8	LEACHATE SUMP 16	Total/NA	Leachate	SM 2540C	
630-59801-11	LEACHATE SUMP 4	Total/NA	Leachate	SM 2540C	
630-59801-12	LEACHATE SUMP 5	Total/NA	Leachate	SM 2540C	
630-59801-13	LEACHATE SUMP 6	Total/NA	Leachate	SM 2540C	
630-59801-14	LEACHATE SUMP 7	Total/NA	Leachate	SM 2540C	
630-59801-15	LEACHATE SUMP 8	Total/NA	Leachate	SM 2540C	
MB 410-368611/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 410-368611/2	Lab Control Sample	Total/NA	Water	SM 2540C	
630-59801-14 MS	LEACHATE SUMP 7	Total/NA	Leachate	SM 2540C	
630-59801-13 DU	LEACHATE SUMP 6	Total/NA	Leachate	SM 2540C	
630-59801-14 DU	LEACHATE SUMP 7	Total/NA	Leachate	SM 2540C	

Analysis Batch: 368779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-8	LEACHATE SUMP 16	Total/NA	Leachate	EPA 350.1	
630-59801-12	LEACHATE SUMP 5	Total/NA	Leachate	EPA 350.1	
MB 410-368779/17	Method Blank	Total/NA	Water	EPA 350.1	
LCS 410-368779/15	Lab Control Sample	Total/NA	Water	EPA 350.1	
LCSD 410-368779/16	Lab Control Sample Dup	Total/NA	Water	EPA 350.1	

Analysis Batch: 369040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total/NA	Leachate	SM 2510B	
630-59801-2	LEACHATE SUMP 10	Total/NA	Leachate	SM 2510B	
630-59801-3	LEACHATE SUMP 11	Total/NA	Leachate	SM 2510B	
630-59801-4	LEACHATE SUMP 12	Total/NA	Leachate	SM 2510B	
630-59801-6	LEACHATE SUMP 14	Total/NA	Leachate	SM 2510B	
630-59801-7	LEACHATE SUMP 15	Total/NA	Leachate	SM 2510B	
630-59801-8	LEACHATE SUMP 16	Total/NA	Leachate	SM 2510B	
630-59801-11	LEACHATE SUMP 4	Total/NA	Leachate	SM 2510B	
630-59801-12	LEACHATE SUMP 5	Total/NA	Leachate	SM 2510B	
630-59801-13	LEACHATE SUMP 6	Total/NA	Leachate	SM 2510B	
630-59801-14	LEACHATE SUMP 7	Total/NA	Leachate	SM 2510B	
630-59801-15	LEACHATE SUMP 8	Total/NA	Leachate	SM 2510B	
630-59801-17	FIELD BLANK	Total/NA	Water	SM 2510B	
MB 410-369040/63	Method Blank	Total/NA	Water	SM 2510B	
MB 410-369040/91	Method Blank	Total/NA	Water	SM 2510B	
LCS 410-369040/64	Lab Control Sample	Total/NA	Water	SM 2510B	
LCS 410-369040/92	Lab Control Sample	Total/NA	Water	SM 2510B	
630-59801-3 DU	LEACHATE SUMP 11	Total/NA	Leachate	SM 2510B	
630-59801-7 DU	LEACHATE SUMP 15	Total/NA	Leachate	SM 2510B	

General Chemistry

Analysis Batch: 369416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total/NA	Leachate	EPA 350.1	
630-59801-2	LEACHATE SUMP 10	Total/NA	Leachate	EPA 350.1	
630-59801-3	LEACHATE SUMP 11	Total/NA	Leachate	EPA 350.1	
630-59801-4	LEACHATE SUMP 12	Total/NA	Leachate	EPA 350.1	
630-59801-6	LEACHATE SUMP 14	Total/NA	Leachate	EPA 350.1	
630-59801-7	LEACHATE SUMP 15	Total/NA	Leachate	EPA 350.1	
630-59801-11	LEACHATE SUMP 4	Total/NA	Leachate	EPA 350.1	
630-59801-13	LEACHATE SUMP 6	Total/NA	Leachate	EPA 350.1	
630-59801-14	LEACHATE SUMP 7	Total/NA	Leachate	EPA 350.1	
630-59801-15	LEACHATE SUMP 8	Total/NA	Leachate	EPA 350.1	
630-59801-17	FIELD BLANK	Total/NA	Water	EPA 350.1	
MB 410-369416/17	Method Blank	Total/NA	Water	EPA 350.1	
MB 410-369416/52	Method Blank	Total/NA	Water	EPA 350.1	
LCS 410-369416/15	Lab Control Sample	Total/NA	Water	EPA 350.1	
LCS 410-369416/50	Lab Control Sample	Total/NA	Water	EPA 350.1	
LCSD 410-369416/16	Lab Control Sample Dup	Total/NA	Water	EPA 350.1	
LCSD 410-369416/51	Lab Control Sample Dup	Total/NA	Water	EPA 350.1	

Analysis Batch: 369925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Dissolved	Leachate	350.1	
630-59801-2	LEACHATE SUMP 10	Dissolved	Leachate	350.1	
630-59801-3	LEACHATE SUMP 11	Dissolved	Leachate	350.1	
630-59801-4	LEACHATE SUMP 12	Dissolved	Leachate	350.1	
630-59801-6	LEACHATE SUMP 14	Dissolved	Leachate	350.1	
630-59801-7	LEACHATE SUMP 15	Dissolved	Leachate	350.1	
630-59801-8	LEACHATE SUMP 16	Dissolved	Leachate	350.1	
630-59801-11	LEACHATE SUMP 4	Dissolved	Leachate	350.1	
630-59801-12	LEACHATE SUMP 5	Dissolved	Leachate	350.1	
630-59801-13	LEACHATE SUMP 6	Dissolved	Leachate	350.1	
630-59801-14	LEACHATE SUMP 7	Dissolved	Leachate	350.1	
630-59801-15	LEACHATE SUMP 8	Dissolved	Leachate	350.1	
630-59801-17	FIELD BLANK	Dissolved	Water	350.1	
MB 410-369925/17	Method Blank	Total/NA	Water	350.1	
MB 410-369925/52	Method Blank	Total/NA	Water	350.1	
LCS 410-369925/15	Lab Control Sample	Total/NA	Water	350.1	
LCS 410-369925/50	Lab Control Sample	Total/NA	Water	350.1	
LCSD 410-369925/16	Lab Control Sample Dup	Total/NA	Water	350.1	
LCSD 410-369925/51	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 373888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total/NA	Leachate	Nitrate by calc	
630-59801-2	LEACHATE SUMP 10	Total/NA	Leachate	Nitrate by calc	
630-59801-3	LEACHATE SUMP 11	Total/NA	Leachate	Nitrate by calc	
630-59801-4	LEACHATE SUMP 12	Total/NA	Leachate	Nitrate by calc	
630-59801-6	LEACHATE SUMP 14	Total/NA	Leachate	Nitrate by calc	
630-59801-7	LEACHATE SUMP 15	Total/NA	Leachate	Nitrate by calc	
630-59801-8	LEACHATE SUMP 16	Total/NA	Leachate	Nitrate by calc	
630-59801-11	LEACHATE SUMP 4	Total/NA	Leachate	Nitrate by calc	
630-59801-12	LEACHATE SUMP 5	Total/NA	Leachate	Nitrate by calc	

General Chemistry (Continued)

Analysis Batch: 373888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-13	LEACHATE SUMP 6	Total/NA	Leachate	Nitrate by calc	
630-59801-14	LEACHATE SUMP 7	Total/NA	Leachate	Nitrate by calc	
630-59801-15	LEACHATE SUMP 8	Total/NA	Leachate	Nitrate by calc	
630-59801-17	FIELD BLANK	Total/NA	Water	Nitrate by calc	

Analysis Batch: 373890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Dissolved	Leachate	353.2	
630-59801-2	LEACHATE SUMP 10	Dissolved	Leachate	353.2	
630-59801-3	LEACHATE SUMP 11	Dissolved	Leachate	353.2	
630-59801-4	LEACHATE SUMP 12	Dissolved	Leachate	353.2	
630-59801-6	LEACHATE SUMP 14	Dissolved	Leachate	353.2	
630-59801-7	LEACHATE SUMP 15	Dissolved	Leachate	353.2	
630-59801-8	LEACHATE SUMP 16	Dissolved	Leachate	353.2	
630-59801-11	LEACHATE SUMP 4	Dissolved	Leachate	353.2	
630-59801-12	LEACHATE SUMP 5	Dissolved	Leachate	353.2	
630-59801-13	LEACHATE SUMP 6	Dissolved	Leachate	353.2	
630-59801-14	LEACHATE SUMP 7	Dissolved	Leachate	353.2	
630-59801-15	LEACHATE SUMP 8	Dissolved	Leachate	353.2	
630-59801-17	FIELD BLANK	Dissolved	Water	353.2	

Field Service / Mobile Lab

Analysis Batch: 23694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
630-59801-1	LEACHATE SUMP 3	Total/NA	Leachate	Field Parameter	
630-59801-2	LEACHATE SUMP 10	Total/NA	Leachate	Field Parameter	
630-59801-3	LEACHATE SUMP 11	Total/NA	Leachate	Field Parameter	
630-59801-4	LEACHATE SUMP 12	Total/NA	Leachate	Field Parameter	
630-59801-5	LEACHATE SUMP 13 - DRY	Total/NA	Leachate	Field Parameter	
630-59801-6	LEACHATE SUMP 14	Total/NA	Leachate	Field Parameter	
630-59801-7	LEACHATE SUMP 15	Total/NA	Leachate	Field Parameter	
630-59801-8	LEACHATE SUMP 16	Total/NA	Leachate	Field Parameter	
630-59801-9	LEACHATE SUMP 17 - DRY	Total/NA	Leachate	Field Parameter	
630-59801-10	LEACHATE SUMP 18 - DRY	Total/NA	Leachate	Field Parameter	
630-59801-11	LEACHATE SUMP 4	Total/NA	Leachate	Field Parameter	
630-59801-12	LEACHATE SUMP 5	Total/NA	Leachate	Field Parameter	
630-59801-13	LEACHATE SUMP 6	Total/NA	Leachate	Field Parameter	
630-59801-14	LEACHATE SUMP 7	Total/NA	Leachate	Field Parameter	
630-59801-15	LEACHATE SUMP 8	Total/NA	Leachate	Field Parameter	
630-59801-16	LEACHATE SUMP 9 - DRY	Total/NA	Leachate	Field Parameter	

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Project/Site: Semi-Annual Landfill Leachate Sumps

Job ID: 630-59801-1

Client Sample ID: LEACHATE SUMP 3

Lab Sample ID: 630-59801-1

Date Collected: 04/21/23 11:00
Date Received: 04/21/23 16:20

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	368844	UJML	ELLE	04/26/23 21:10
Total/NA	Analysis	8260D		1	372515	TQ4J	ELLE	05/05/23 16:36
Dissolved	Prep	Non-Digest Prep			370340	UAMX	ELLE	05/01/23 02:33
Dissolved	Analysis	200.7		1	370822	T8CQ	ELLE	05/01/23 18:03
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371490	MT26	ELLE	05/03/23 04:35
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371953	MT26	ELLE	05/03/23 14:43
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.8 Rev 5.4		1	373312	F7JF	ELLE	05/08/23 11:33
Dissolved	Analysis	350.1		100	369925	JCG7	ELLE	04/28/23 10:02
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		100	369416	JCG7	ELLE	04/27/23 10:21
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:16
Total/NA	Analysis	SM 2540C		1	368098	M98K	ELLE	04/25/23 06:56 - 04/26/23 11:00 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 11:00

Client Sample ID: LEACHATE SUMP 10

Lab Sample ID: 630-59801-2

Date Collected: 04/21/23 13:20
Date Received: 04/21/23 16:20

Matrix: Leachate

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	368844	UJML	ELLE	04/26/23 21:33
Total/NA	Analysis	8260D		1	372515	TQ4J	ELLE	05/05/23 16:58
Dissolved	Prep	Non-Digest Prep			369863	UAMX	ELLE	04/28/23 11:41
Dissolved	Analysis	200.7		1	370633	MT26	ELLE	05/01/23 10:40
Total Recoverable	Prep	200.8 Rev 5.4			369873	UAMX	ELLE	04/28/23 12:01
Total Recoverable	Analysis	200.7 Rev 4.4		1	371218	T8CQ	ELLE	05/02/23 12:02
Total Recoverable	Prep	200.8 Rev 5.4			369873	UAMX	ELLE	04/28/23 12:01
Total Recoverable	Analysis	200.8 Rev 5.4		1	371322	UCIG	ELLE	05/02/23 18:59
Dissolved	Analysis	350.1		5	369925	JCG7	ELLE	04/28/23 09:50
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		5	369416	JCG7	ELLE	04/27/23 10:38
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:21
Total/NA	Analysis	SM 2540C		1	367570	M98K	ELLE	04/24/23 07:10 - 04/25/23 10:42 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 13:20

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 11
Lab Sample ID: 630-59801-3
Date Collected: 04/21/23 11:40
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	368844	UJML	ELLE	04/26/23 21:57
Total/NA	Analysis	8260D		10	372515	TQ4J	ELLE	05/05/23 17:21
Dissolved	Prep	200.7 Rev 4.4			371276	UAMX	ELLE	05/02/23 19:02
Dissolved	Analysis	200.7 Rev 4.4		1	371491	MT26	ELLE	05/03/23 07:12
Total Recoverable	Prep	200.8 Rev 5.4			371276	UAMX	ELLE	05/02/23 19:02
Total Recoverable	Analysis	200.7 Rev 4.4		1	371491	MT26	ELLE	05/03/23 07:15
Total Recoverable	Prep	200.8 Rev 5.4			371276	UAMX	ELLE	05/02/23 19:02
Total Recoverable	Analysis	200.8 Rev 5.4		1	373504	UCIG	ELLE	05/08/23 16:45
Dissolved	Analysis	350.1		400	369925	JCG7	ELLE	04/28/23 11:38
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		400	369416	JCG7	ELLE	04/27/23 11:59
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:00
Total/NA	Analysis	SM 2540C		1	368098	M98K	ELLE	04/25/23 10:04 - 04/26/23 11:00 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 11:40

Client Sample ID: LEACHATE SUMP 12
Lab Sample ID: 630-59801-4
Date Collected: 04/21/23 11:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	369799	UJML	ELLE	04/28/23 12:30
Total/NA	Analysis	8260D		1	372515	TQ4J	ELLE	05/05/23 17:43
Dissolved	Prep	Non-Digest Prep			369863	UAMX	ELLE	04/28/23 11:41
Dissolved	Analysis	200.7		1	370633	MT26	ELLE	05/01/23 10:33
Total Recoverable	Prep	200.8 Rev 5.4			369872	UAMX	ELLE	04/28/23 11:56
Total Recoverable	Analysis	200.7 Rev 4.4		1	370633	MT26	ELLE	05/01/23 09:22
Total Recoverable	Prep	200.8 Rev 5.4			369872	UAMX	ELLE	04/28/23 11:56
Total Recoverable	Analysis	200.8 Rev 5.4		1	373504	UCIG	ELLE	05/08/23 17:29
Dissolved	Analysis	350.1		10	369925	JCG7	ELLE	04/28/23 09:52
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		100	369416	JCG7	ELLE	04/27/23 10:40
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:19
Total/NA	Analysis	SM 2540C		1	367570	M98K	ELLE	04/24/23 07:10 - 04/25/23 10:42 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 11:55

Client Sample ID: LEACHATE SUMP 13 - DRY
Lab Sample ID: 630-59801-5
Date Collected: 04/21/23 00:00
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 00:00

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: LEACHATE SUMP 14
Lab Sample ID: 630-59801-6
Date Collected: 04/21/23 12:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	369799	UJML	ELLE	04/28/23 12:52
Total/NA	Analysis	8260D		1	372515	TQ4J	ELLE	05/05/23 18:05
Dissolved	Prep	Non-Digest Prep			369863	UAMX	ELLE	04/28/23 11:41
Dissolved	Analysis	200.7		1	370633	MT26	ELLE	05/01/23 10:37
Total Recoverable	Prep	200.8 Rev 5.4			369872	UAMX	ELLE	04/28/23 11:56
Total Recoverable	Analysis	200.7 Rev 4.4		1	370633	MT26	ELLE	05/01/23 09:19
Total Recoverable	Prep	200.8 Rev 5.4			369872	UAMX	ELLE	04/28/23 11:56
Total Recoverable	Analysis	200.8 Rev 5.4		1	373504	UCIG	ELLE	05/08/23 17:27
Dissolved	Analysis	350.1		1	369925	JCG7	ELLE	04/28/23 09:48
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		1	369416	JCG7	ELLE	04/27/23 10:34
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:22
Total/NA	Analysis	SM 2540C		1	368098	M98K	ELLE	04/25/23 06:56 - 04/26/23 11:00 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 12:15

Client Sample ID: LEACHATE SUMP 15
Lab Sample ID: 630-59801-7
Date Collected: 04/21/23 12:50
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	369799	UJML	ELLE	04/28/23 13:13
Total/NA	Analysis	8260D		10	372515	TQ4J	ELLE	05/05/23 18:28
Dissolved	Prep	Non-Digest Prep			369863	UAMX	ELLE	04/28/23 11:41
Dissolved	Analysis	200.7		1	370633	MT26	ELLE	05/01/23 10:27
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371490	MT26	ELLE	05/03/23 03:44
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371953	MT26	ELLE	05/03/23 14:23
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.8 Rev 5.4		1	373312	F7JF	ELLE	05/08/23 11:15
Dissolved	Analysis	350.1		10	369925	JCG7	ELLE	04/28/23 09:54
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		100	369416	JCG7	ELLE	04/27/23 10:42
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:03
Total/NA	Analysis	SM 2540C		1	368098	M98K	ELLE	04/25/23 06:56 - 04/26/23 11:00 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 12:50

Client Sample ID: LEACHATE SUMP 16

Lab Sample ID: 630-59801-8

Date Collected: 04/21/23 12:35

Matrix: Leachate

Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	369826	UJML	ELLE	04/28/23 13:38
Total/NA	Analysis	8260D		10	372515	TQ4J	ELLE	05/05/23 18:51
Dissolved	Prep	Non-Digest Prep			370340	UAMX	ELLE	05/01/23 02:33
Dissolved	Analysis	200.7		1	370822	T8CQ	ELLE	05/01/23 18:00
Total Recoverable	Prep	200.8 Rev 5.4			369871	UAMX	ELLE	04/28/23 11:53
Total Recoverable	Analysis	200.7 Rev 4.4		1	371218	T8CQ	ELLE	05/02/23 11:27
Total Recoverable	Prep	200.8 Rev 5.4			369871	UAMX	ELLE	04/28/23 11:53
Total Recoverable	Analysis	200.8 Rev 5.4		1	373504	UCIG	ELLE	05/08/23 17:11
Dissolved	Analysis	350.1		20	369925	JCG7	ELLE	04/28/23 10:00
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		5	368779	JCG7	ELLE	04/26/23 10:20
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:09
Total/NA	Analysis	SM 2540C		1	368611	M98K	ELLE	04/26/23 06:50 - 04/27/23 10:30 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 12:35

Client Sample ID: LEACHATE SUMP 17 - DRY

Lab Sample ID: 630-59801-9

Date Collected: 04/21/23 00:00

Matrix: Leachate

Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 00:00

Client Sample ID: LEACHATE SUMP 18 - DRY

Lab Sample ID: 630-59801-10

Date Collected: 04/21/23 00:00

Matrix: Leachate

Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 00:00

Client Sample ID: LEACHATE SUMP 4

Lab Sample ID: 630-59801-11

Date Collected: 04/21/23 11:20

Matrix: Leachate

Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	369826	UJML	ELLE	04/28/23 14:01
Total/NA	Analysis	8260D		1	372515	TQ4J	ELLE	05/05/23 19:13
Dissolved	Prep	Non-Digest Prep			370340	UAMX	ELLE	05/01/23 02:33
Dissolved	Analysis	200.7		1	370822	T8CQ	ELLE	05/01/23 17:57
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371490	MT26	ELLE	05/03/23 05:00
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371953	MT26	ELLE	05/03/23 15:00

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Project/Site: Semi-Annual Landfill Leachate Sumps

Job ID: 630-59801-1

Client Sample ID: LEACHATE SUMP 4

Lab Sample ID: 630-59801-11

Date Collected: 04/21/23 11:20
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.8 Rev 5.4		1	373312	F7JF	ELLE	05/08/23 11:37
Dissolved	Analysis	350.1		100	369925	JCG7	ELLE	04/28/23 10:04
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		100	369416	JCG7	ELLE	04/27/23 10:44
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:18
Total/NA	Analysis	SM 2540C		1	368611	M98K	ELLE	04/26/23 06:50 - 04/27/23 10:30 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 11:20

Client Sample ID: LEACHATE SUMP 5

Lab Sample ID: 630-59801-12

Date Collected: 04/21/23 10:15
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	369826	UJML	ELLE	04/28/23 14:23
Total/NA	Analysis	8260D		10	372515	TQ4J	ELLE	05/05/23 19:36
Dissolved	Prep	Non-Digest Prep			370340	UAMX	ELLE	05/01/23 02:33
Dissolved	Analysis	200.7		1	370822	T8CQ	ELLE	05/01/23 17:54
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371490	MT26	ELLE	05/03/23 05:06
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371953	MT26	ELLE	05/03/23 15:03
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.8 Rev 5.4		1	373312	F7JF	ELLE	05/08/23 11:39
Dissolved	Analysis	350.1		200	369925	JCG7	ELLE	04/28/23 10:09
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		200	368779	JCG7	ELLE	04/26/23 10:22
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:10
Total/NA	Analysis	SM 2540C		1	368611	M98K	ELLE	04/26/23 08:43 - 04/27/23 10:30 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 10:15

Client Sample ID: LEACHATE SUMP 6

Lab Sample ID: 630-59801-13

Date Collected: 04/21/23 10:45
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	369826	UJML	ELLE	04/28/23 14:46
Total/NA	Analysis	8260D		10	372515	TQ4J	ELLE	05/05/23 19:58
Dissolved	Prep	Non-Digest Prep			370340	UAMX	ELLE	05/01/23 02:33
Dissolved	Analysis	200.7		1	370822	T8CQ	ELLE	05/01/23 18:07

Client Sample ID: LEACHATE SUMP 6
Lab Sample ID: 630-59801-13

Date Collected: 04/21/23 10:45
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371490	MT26	ELLE	05/03/23 04:41
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371953	MT26	ELLE	05/03/23 14:56
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.8 Rev 5.4		1	373312	F7JF	ELLE	05/08/23 11:35
Dissolved	Analysis	350.1		200	369925	JCG7	ELLE	04/28/23 10:40
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		200	369416	JCG7	ELLE	04/27/23 10:53
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:12
Total/NA	Analysis	SM 2540C		1	368611	M98K	ELLE	04/26/23 06:50 - 04/27/23 10:30 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 10:45

Client Sample ID: LEACHATE SUMP 7
Lab Sample ID: 630-59801-14

Date Collected: 04/21/23 09:30
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	369826	UJML	ELLE	04/28/23 15:09
Total/NA	Analysis	8260D		1	372515	TQ4J	ELLE	05/05/23 20:20
Dissolved	Prep	Non-Digest Prep			369645	UAMX	ELLE	04/28/23 04:51
Dissolved	Analysis	200.7		1	369936	MT26	ELLE	04/28/23 10:37
Total Recoverable	Prep	200.8 Rev 5.4			369872	UAMX	ELLE	04/28/23 11:56
Total Recoverable	Analysis	200.7 Rev 4.4		1	370633	MT26	ELLE	05/01/23 09:16
Total Recoverable	Prep	200.8 Rev 5.4			369872	UAMX	ELLE	04/28/23 11:56
Total Recoverable	Analysis	200.8 Rev 5.4		1	373504	UCIG	ELLE	05/08/23 17:25
Dissolved	Analysis	350.1		1	369925	JCG7	ELLE	04/28/23 10:21
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		1	369416	JCG7	ELLE	04/27/23 10:36
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:24
Total/NA	Analysis	SM 2540C		1	368611	M98K	ELLE	04/26/23 06:50 - 04/27/23 10:30 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 09:30

Client Sample ID: LEACHATE SUMP 8
Lab Sample ID: 630-59801-15

Date Collected: 04/21/23 09:55
Matrix: Leachate
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		20	369826	UJML	ELLE	04/28/23 15:31
Total/NA	Analysis	8260D		10	372515	TQ4J	ELLE	05/05/23 20:43

Client Sample ID: LEACHATE SUMP 8

Lab Sample ID: 630-59801-15

Date Collected: 04/21/23 09:55

Matrix: Leachate

Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	Non-Digest Prep			370340	UAMX	ELLE	05/01/23 02:33
Dissolved	Analysis	200.7		1	370822	T8CQ	ELLE	05/01/23 18:10
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371490	MT26	ELLE	05/03/23 04:28
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.7 Rev 4.4		1	371953	MT26	ELLE	05/03/23 14:40
Total Recoverable	Prep	200.8 Rev 5.4			369964	UAMX	ELLE	04/28/23 14:52
Total Recoverable	Analysis	200.8 Rev 5.4		1	373312	F7JF	ELLE	05/08/23 11:31
Dissolved	Analysis	350.1		200	369925	JCG7	ELLE	04/28/23 10:42
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		200	369416	JCG7	ELLE	04/27/23 10:55
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 18:07
Total/NA	Analysis	SM 2540C		1	368611	M98K	ELLE	04/26/23 08:43 - 04/27/23 10:30 [1]
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 09:55

Client Sample ID: LEACHATE SUMP 9 - DRY

Lab Sample ID: 630-59801-16

Date Collected: 04/21/23 00:00

Matrix: Leachate

Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Parameter		1	23694	CAQ	EET PA	04/21/23 00:00

Client Sample ID: FIELD BLANK

Lab Sample ID: 630-59801-17

Date Collected: 04/21/23 09:20

Matrix: Water

Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	369826	UJML	ELLE	04/28/23 15:54
Total/NA	Analysis	8260D		1	373596	TQ4J	ELLE	05/09/23 20:33
Dissolved	Prep	Non-Digest Prep			369645	UAMX	ELLE	04/28/23 04:51
Dissolved	Analysis	200.7		1	369936	MT26	ELLE	04/28/23 11:12
Total Recoverable	Prep	200.8 Rev 5.4			369871	UAMX	ELLE	04/28/23 11:53
Total Recoverable	Analysis	200.7 Rev 4.4		1	371218	T8CQ	ELLE	05/02/23 11:37
Total Recoverable	Prep	200.8 Rev 5.4			369871	UAMX	ELLE	04/28/23 11:53
Total Recoverable	Analysis	200.8 Rev 5.4		1	373504	UCIG	ELLE	05/08/23 17:13
Dissolved	Analysis	350.1		1	369925	JCG7	ELLE	04/28/23 10:23
Dissolved	Analysis	353.2		1	373890	UJE2	ELLE	05/09/23 18:19
Total/NA	Analysis	EPA 350.1		1	369416	JCG7	ELLE	04/27/23 11:13
Total/NA	Analysis	Nitrate by calc		1	373888	UJE2	ELLE	05/09/23 18:17
Total/NA	Analysis	SM 2510B		1	369040	DI9Q	ELLE	04/26/23 17:50
Total/NA	Analysis	SM 2540C		1	367570	M98K	ELLE	04/24/23 07:10 - 04/25/23 10:42 [1]

Lab Chronicle

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Client Sample ID: TRIP BLANK
Lab Sample ID: 630-59801-18
Date Collected: 04/21/23 07:07
Matrix: Water
Date Received: 04/21/23 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	369826	UJML	ELLE	04/28/23 16:17

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET PA = Eurofins Environment Testing Philadelphia, LLC, 213 Witmer Road, Horsham, PA 19044-0962, TEL (215)355-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Laboratory: Eurofins Environment Testing Philadelphia, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA093 (Horsham)	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Field Parameter		Leachate	Depth to Water from Top of Casing

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	05-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
353.2		Leachate	Nitrate, Dissolved
353.2		Water	Nitrate, Dissolved
Nitrate by calc		Leachate	Nitrate as N
Nitrate by calc		Water	Nitrate as N

Method Summary

Client: Cape May County Municipal Utilities Auth
Job ID: 630-59801-1
Project/Site: Semi-Annual Landfill Leachate Sumps

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	ELLE
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
200.7	Dissolved Metals	EPA	ELLE
200.7 Rev 4.4	Metals (ICP)	EPA	ELLE
200.8 Rev 5.4	Metals (ICP/MS)	EPA	ELLE
350.1	Nitrogen, Ammonia	EPA	ELLE
353.2	Nitrate by Calculation	EPA	ELLE
EPA 350.1	Nitrogen, Ammonia	EPA	ELLE
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	ELLE
SM 2510B	Conductivity, Specific Conductance	SM	ELLE
SM 2540C	Solids, Total Dissolved (TDS)	SM	ELLE
Field Parameter	Field Parameters	EPA	EET PA
200.7	Preparation, Total Recoverable Metals	EPA	ELLE
200.7 Rev 4.4	Preparation, Total Recoverable Metals	EPA	ELLE
200.8 Rev 5.4	Preparation, Total Recoverable Metals	EPA	ELLE
5030C	Purge and Trap	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PA = Eurofins Environment Testing Philadelphia, LLC, 213 Witmer Road, Horsham, PA 19044-0962, TEL (215)355-3900

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Cape May County Municipal Utilities Auth
Project/Site: Semi-Annual Landfill Leachate Sumps

Job ID: 630-59801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
630-59801-1	LEACHATE SUMP 3	Leachate	04/21/23 11:00	04/21/23 16:20
630-59801-2	LEACHATE SUMP 10	Leachate	04/21/23 13:20	04/21/23 16:20
630-59801-3	LEACHATE SUMP 11	Leachate	04/21/23 11:40	04/21/23 16:20
630-59801-4	LEACHATE SUMP 12	Leachate	04/21/23 11:55	04/21/23 16:20
630-59801-5	LEACHATE SUMP 13 - DRY	Leachate	04/21/23 00:00	04/21/23 16:20
630-59801-6	LEACHATE SUMP 14	Leachate	04/21/23 12:15	04/21/23 16:20
630-59801-7	LEACHATE SUMP 15	Leachate	04/21/23 12:50	04/21/23 16:20
630-59801-8	LEACHATE SUMP 16	Leachate	04/21/23 12:35	04/21/23 16:20
630-59801-9	LEACHATE SUMP 17 - DRY	Leachate	04/21/23 00:00	04/21/23 16:20
630-59801-10	LEACHATE SUMP 18 - DRY	Leachate	04/21/23 00:00	04/21/23 16:20
630-59801-11	LEACHATE SUMP 4	Leachate	04/21/23 11:20	04/21/23 16:20
630-59801-12	LEACHATE SUMP 5	Leachate	04/21/23 10:15	04/21/23 16:20
630-59801-13	LEACHATE SUMP 6	Leachate	04/21/23 10:45	04/21/23 16:20
630-59801-14	LEACHATE SUMP 7	Leachate	04/21/23 09:30	04/21/23 16:20
630-59801-15	LEACHATE SUMP 8	Leachate	04/21/23 09:55	04/21/23 16:20
630-59801-16	LEACHATE SUMP 9 - DRY	Leachate	04/21/23 00:00	04/21/23 16:20
630-59801-17	FIELD BLANK	Water	04/21/23 09:20	04/21/23 16:20
630-59801-18	TRIP BLANK	Water	04/21/23 07:07	04/21/23 16:20

Eurofins Environment Testing Vineland
1835 W. Landis Avenue
Vineland, NJ 08360
Phone: 856-563-0101

Chain of Custody Record

630-59801 Chain of Custody

Environment Testing

Client Information	Sampler:	Lab PM: Dougherty, Erin		-3347.1
Client Contact: Michael Frisko	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Cape May County Municipal Utilities Auth	Deliver After: 04/06/2023 07:00 AM Deliver By: 04/06/2023 06:00 PM	PWSID:		Job #
Address: 1523 U.S. Route 9 North PO BOX 610	Due Date Requested:			
City: Cape May Court House	TAT Requested (days):			
State, Zip: NJ, 08210	Compliance Project: Δ Yes Δ No			
Phone: 609-465-9026(Tel)	PO #: Purchase Order not required			
Email: friskomm@cmcmua.com	WO #:			
Project Name: Cape May County Landfill/ Event Desc: Semi-Annual Leacha	Project #: 63001619			
Site: New Jersey	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 353.2_Pres	2510B, 2540C_Calcd, 353.2_Nitrite	200.7 - (MOD) Total Metals	200.7 - (MOD) Dissolved Metals	Nitrate_Calc - Dissolved Nitrate as N	Nitrate_Calc - Local Method	624.1_PREC, 8260C	353.2_Nitrite - Nitrite, dissolved	FieldSampling - (MOD) DTW and Conductivity	SUBCONTRACT - Client Forms				Total Number of containers	DTW Field Readings:
			Preservation Code:				S	N	D	D	N	N	A	N	N	N					
FIELD BLANK	4-21-23 ~~9:80~~	9:20		Water			X	X	X	X	X	X	X	X	X					19	
TRIP BLANK	~~7:07~~	7:07		Water									X							19	~~4.3~~
LEACHATE SUMP 3		11:00		Water			X	X	X	X	X	X	X	X	X	X				19	~~29.7~~ 4.3
LEACHATE SUMP 10		1320		Water			X	X	X	X	X	X	X	X	X	X				19	~~35.3~~ 29.7
LEACHATE SUMP 11		1140		Water			X	X	X	X	X	X	X	X	X	X				14	31.3
LEACHATE SUMP 12		1155		Water			X	X	X	X	X	X	X	X	X	X				19	39.6
LEACHATE SUMP 13	DRY			Water			X	X	X	X	X	X	X	X	X	X				19	
LEACHATE SUMP 14		1215		Water			X	X	X	X	X	X	X	X	X	X				14	29.4
LEACHATE SUMP 15		1250		Water			X	X	X	X	X	X	X	X	X	X				14	27.7

Field Notes: MUST SAMPLE APRIL AND OCTOBER - CALL MIKE FRISKO A WEEK PRIOR TO CONFIRM ACCESS (609-465-9026)

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4-21-23 1620			4/21/2023 1620	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0

Ver: 06/08/2021

Eurofins Environment Testing Vineland
1835 W. Landis Avenue
Vineland, NJ 08360
Phone: 856-563-0101

Chain of Custody Record

eurofins Environment Testing

COC No: 179074

Client Information	Sampler:	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-76924-3347.2
Client Contact: Michael Frisko	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Cape May County Municipal Utilities Auth	Deliver After: 04/06/2023 07:00 AM Deliver By: 04/06/2023 06:00 PM	PWSID:	Analysis Requested	Job #:
Address: 1523 U.S. Route 9 North PO BOX 610	Due Date Requested:			Preservation Codes:
City: Cape May Court House	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: NJ, 08210	Compliance Project: Δ Yes Δ No			
Phone: 609-465-9026(Tel)	PO #: Purchase Order not required			Other:
Email: friskomm@cmcmua.com	WO #:			
Project Name: Cape May County Landfill/ Event Desc: Semi-Annual Leacha	Project #: 63001619			
Site: New Jersey	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 353.2_Pres	2510B, 2540C_Calcd, 353.2_Nitrite	200.7 - (MOD) Total Metals	200.7 - (MOD) Dissolved Metals	Nitrate_Calc - Dissolved Nitrate as N	Nitrate_Calc - Local Method	624.1_PREC, 8260C	353.2_Nitrite - Nitrite, dissolved	FieldSampling - (MOD) DTW and Conductivity	SUBCONTRACT - Client Forms				Total Number of containers	DTW Field Readings:
			Preservation Code:				S	N	D	D	N	N	A	N	N	N					
LEACHATE SUMP 16	4-21-23	1235		Water																9	13.3
LEACHATE SUMP 17		DRY		Water																9	
LEACHATE SUMP 18		DRY		Water																9	
LEACHATE SUMP 4		1:20		Water																9	2.9
LEACHATE SUMP 5		1015		Water																9	0.7
LEACHATE SUMP 6		1045		Water																9	1.5
LEACHATE SUMP 7		9:30		Water																10	32.1
LEACHATE SUMP 8		9:55		Water																11	28.7
LEACHATE SUMP 9 DRY				Water																	

Field Notes: MUST SAMPLE APRIL AND OCTOBER - CALL MIKE FRISKO A WEEK PRIOR TO CONFIRM ACCESS (609-465-9026)

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4-21-23 1620	Eee			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		3.0

Ver: 06/08/2021

Eurofins Environment Testing Philadelphia
213 Witmer Road
Horsham, PA 19044-0962
Phone: 215-355-3900

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-10404.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin: New Jersey	Page: Page 1 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New Jersey		Job #: 630-59801-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 5/4/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Semi-Annual Landfill Leachate Sumps	Project #: 63001619			
Site: Cape May Country MUA Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wewater, Sesolid, Owastaoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Nitrate_Calc	624.1_PREC/624_Prep (MOD) PPL	8260D/5030C (MOD) Appendix IX Volatiles	2510B	2540C_Calcd	350.1/FIELD_FLTRD Dissolved Ammonia	360.1	353.2_Nitrite/FIELD_FLTRD	353.2_Nitrite	353.2_Pres/FIELD_FLTRD	353.2_Pres	200.7/FIELD_FLTRD (MOD) Dissolved Metals	200.7/200.7_P_TR (MOD) Total Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
LEACHATE SUMP 3 (630-59801-1)	4/21/23	11:00 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 10 (630-59801-2)	4/21/23	13:20 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 11 (630-59801-3)	4/21/23	11:40 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 12 (630-59801-4)	4/21/23	11:55 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 14 (630-59801-6)	4/21/23	12:15 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 15 (630-59801-7)	4/21/23	12:50 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 16 (630-59801-8)	4/21/23	12:35 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 4 (630-59801-11)	4/21/23	11:20 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 5 (630-59801-12)	4/21/23	10:15 Eastern		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	19	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/21/2023 1930	EAC	50,99 ✓		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/21/23 2110	EAC

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	50, 99 ✓	H.S.- H, I, L-12, M-13, I, J, K, L-15, 1.1-5.9

Ver: 06/08/2021

Eurofins Environment Testing Philadelphia
213 Witmer Road
Horsham, PA 19044-0962
Phone: 215-355-3900

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-10404.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin: New Jersey	Page: Page 2 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New Jersey		Job #: 630-59801-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 5/4/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Semi-Annual Landfill Leachate Sumps	Project #: 63001619			
Site: Cape May Country MUA Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Nitrate_Calc/FIELD_FLTRD	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LEACHATE SUMP 3 (630-59801-1)	4/21/23	11:00 Eastern		Water			X	19	
LEACHATE SUMP 10 (630-59801-2)	4/21/23	13:20 Eastern		Water			X	19	
LEACHATE SUMP 11 (630-59801-3)	4/21/23	11:40 Eastern		Water			X	19	
LEACHATE SUMP 12 (630-59801-4)	4/21/23	11:55 Eastern		Water			X	19	
LEACHATE SUMP 14 (630-59801-6)	4/21/23	12:15 Eastern		Water			X	19	
LEACHATE SUMP 15 (630-59801-7)	4/21/23	12:50 Eastern		Water			X	19	
LEACHATE SUMP 16 (630-59801-8)	4/21/23	12:35 Eastern		Water			X	19	
LEACHATE SUMP 4 (630-59801-11)	4/21/23	11:20 Eastern		Water			X	19	
LEACHATE SUMP 5 (630-59801-12)	4/21/23	10:15 Eastern		Water			X	19	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/21/23 2110	Company eurt

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 50, 99 3 V	Cooler Temperature(s) °C and Other Remarks: 1.1 - 5.9

Ver: 06/08/2021

Eurofins Environment Testing Philadelphia
213 Witmer Road
Horsham, PA 19044-0962
Phone: 215-355-3900

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-10404.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin: New Jersey	Page: Page 3 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New Jersey		Job #: 630-59801-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 5/4/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Semi-Annual Landfill Leachate Sumps	Project #: 63001619			
Site: Cape May Country MUA Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Nitrate_Calc	624.1_PREC/624_Prep (MOD) PPL	8260D/5030C (MOD) Appendix IX Volatiles	2510B	2540C_Calcd	350.1/FIELD_FLTRD Dissolved Ammonia	350.1	353.2_Nitrite/FIELD_FLTRD	353.2_Nitrite	353.2_Pres/FIELD_FLTRD	353.2_Pres	200.7/FIELD_FLTRD (MOD) Dissolved Metals	200.7/200.7_P_TR (MOD) Total Metals	Total Number of containers	Special Instructions/Note:
LEACHATE SUMP 6 (630-59801-13)	4/21/23	10:45 Eastern		Water				X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 7 (630-59801-14)	4/21/23	09:30 Eastern		Water				X	X	X	X	X	X	X	X	X	X	X	X	X	19	
LEACHATE SUMP 8 (630-59801-15)	4/21/23	09:55 Eastern		Water				X	X	X	X	X	X	X	X	X	X	X	X	X	19	
FIELD BLANK (630-59801-17)	4/21/23	09:20 Eastern		Water				X	X	X	X	X	X	X	X	X	X	X	X	X	15	
TRIP BLANK (630-59801-18)	4/21/23	07:07 Eastern		Water					X												8	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/21/23 2110	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 50.99 3 V	Cooler Temperature(s) °C and Other Remarks: 1.1 - 5.9

Ver: 06/08/2021

Eurofins Environment Testing Philadelphia
213 Witmer Road
Horsham, PA 19044-0962
Phone: 215-355-3900

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dougherty, Erin	Carrier Tracking No(s):	COC No: 630-10404.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: Erin.Dougherty@et.eurofinsus.com	State of Origin: New Jersey	Page: Page 4 of 4
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New Jersey		Job #: 630-59801-1
Address: 2425 New Holland Pike, .	Due Date Requested: 5/4/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Semi-Annual Landfill Leachate Sumps	Project #: 63001619			
Site: Cape May Country MUA Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Nitrate_Calc/FIELD_FLTRD	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LEACHATE SUMP 6 (630-59801-13)	4/21/23	10:45 Eastern		Water			X	19	
LEACHATE SUMP 7 (630-59801-14)	4/21/23	09:30 Eastern		Water			X	19	
LEACHATE SUMP 8 (630-59801-15)	4/21/23	09:55 Eastern		Water			X	19	
FIELD BLANK (630-59801-17)	4/21/23	09:20 Eastern		Water			X	15	
TRIP BLANK (630-59801-18)	4/21/23	07:07 Eastern		Water				8	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Philadelphia, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Philadelphia, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Philadelphia, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Philadelphia, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/21/23 2:10	Company Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 50, 99 ¾ V	Cooler Temperature(s) °C and Other Remarks: 1.1 - 5.9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Cape May County Municipal Utilities Auth

Job Number: 630-59801-1

Login Number: 59801
List Number: 1
Creator: Minster, Will

List Source: Eurofins Environment Testing Philadelphia, LLC

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cape May County Municipal Utilities Auth

Job Number: 630-59801-1

Login Number: 59801
List Number: 2
Creator: Cyms, Carolyn M

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 04/21/23 03:51 AM

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	False	Headspace greater than 6mm in diameter in some but not all containers

Login Sample Receipt Checklist

Client: Cape May County Municipal Utilities Auth

Job Number: 630-59801-1

Login Number: 59801
List Number: 3
Creator: Schickel, Tracy L

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 05/01/23 02:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable (</=6C, not frozen).		
Cooler Temperature is recorded.		
WV: Container Temperature is acceptable (</=6C, not frozen).		
WV: Container Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
There are no discrepancies between the containers received and the COC.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
There is sufficient vol. for all requested analyses.		
Is the Field Sampler's name present on COC?		
Sample custody seals are intact.		
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?		

Login Sample Receipt Checklist

Client: Cape May County Municipal Utilities Auth

Job Number: 630-59801-1

Login Number: 59801
List Number: 4
Creator: Trimby, Denise L

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 05/03/23 08:27 AM

Question	Answer	Comment
The cooler's custody seal is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable (</=6C, not frozen).		
Cooler Temperature is recorded.		
WV: Container Temperature is acceptable (</=6C, not frozen).		
WV: Container Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
There are no discrepancies between the containers received and the COC.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
There is sufficient vol. for all requested analyses.		
Is the Field Sampler's name present on COC?		
Sample custody seals are intact.		
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Michael Frisko
Cape May County Municipal Utilities Auth
1523 U.S. Route 9 North
PO BOX 610
Cape May Court House NJ 08210

Generated 6/24/2023 11:04 AM

JOB DESCRIPTION

Semi-Annual Leachate Sumps
Semi-Annual Landfill Leachate - Forms

JOB NUMBER

630-59801-2

Eurofins Environment Testing Philadelphia, LLC
213 Witmer Road
Horsham PA 19044-0962

RFP-14-23 ADDENDUM 1

See page two for job notes and contact information.

my EOL

Eurofins Environment Testing Philadelphia, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Philadelphia, LLC Project Manager.

Authorization

Generated
6/24/2023 11:04 AM

Authorized for release by
Michelle Horowitz, Project Manager
Michelle.Horowitz@et.eurofinsus.com
Designee for
Erin Dougherty, Project Administrator
Erin.Dougherty@et.eurofinsus.com
215 355-3900

Eurofins Environment Testing Philadelphia, LLC

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD,and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015
VL = field staff performs tests under NJ State certification #06005
WG = field staff performs tests under NJ State certification #PA001
H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

CMCMUA Landfill		NJDEP PERMIT NO. =	NJ0050547						SUMPS 3-20										
					Antimony (ug/l)	Arsenic, Dissolved (ug/l)	Barium, Dissolved (ug/l)	Beryllium (ug/l)	Cadmium (ug/l)	Chromium (ug/l)	Cobalt (ug/l)	Copper (ug/l)	Lead (ug/l)	Nickel (ug/l)	Selenium, Dissolved (ug/l)	Silver, Dissolved (ug/l)	Thallium (ug/l)	Vanadium (ug/l)	Zinc (ug/l)
					[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]	[Total]
(3) IB-P-NORTH	d	4-/2023	n/a	n/a	<16.0	<16.0	140.00	<1.0	<1.0	<3.0	3.40	<8.0	<7.1	7.50	<16.0	<4.1	<0.13	5.50	<3.7
		10-/2023	n/a	n/a															
(4) IB-S-NORTH	d	4-/2023	n/a	n/a	<16.0	<16.0	150.00	<1.0	<1.0	<3.0	2.00	<8.0	<7.1	4.20	<16.0	<4.1	<0.13	<1.9	<3.7
		10-/2023	n/a	n/a															
(5) IB-P-SOUTH	d	4-/2023	n/a	n/a	<16.0	31.00	160.00	<1.0	<1.0	30.00	15.00	<8.0	<7.1	63.00	<16.0	<4.1	<0.13	41.00	5.20
		10-/2023	n/a	n/a															
(6) IB-S-SOUTH	d	4-/2023	n/a	n/a	<16.0	37.00	210.00	<1.0	<1.0	19.00	9.20	<8.0	<7.1	38.00	16.00	<4.1	<0.13	23.00	5.70
		10-/2023	n/a	n/a															
(7) IA-P1	d	4-/2023	n/a	n/a	<16.0	<16.0	81.00	<1.0	<1.0	<3.0	15.00	<8.0	<7.1	24.00	<16.0	<4.1	0.16	<1.9	60.00
		10-/2023	n/a	n/a															
(8) IA-S-1	d	4-/2023	n/a	n/a	<16.0	59.00	180.00	<1.0	<1.0	64.00	14.00	<8.0	<7.1	60.00	<16.0	<4.1	<0.13	36.00	6.40
		10-/2023	n/a	n/a															
(9) IC-P-4	d	4-/2023	n/a	n/a	DRY														
		10-/2023	n/a	n/a															
(10) IC-S-4	d	4-/2023	n/a	n/a	<16.0	<16.0	57.00	<1.0	<1.0	<3.0	<1.5	<8.0	<7.1	3.30	<16.0	<4.1	<0.13	<1.9	83.00
		10-/2023	n/a	n/a															
(11) IC-P-1	d	4-/2023	n/a	n/a	<16.0	200.00	190.00	<10.0	<10.0	130.00	36.00	<80.0	<71.0	210.00	<160.0	<40.0	2.10	96.00	<37.0
		10-/2023	n/a	n/a															
(12) IC-S-1	d	4-/2023	n/a	n/a	<16.0	<16.0	55.00	<1.0	<1.0	3.70	2.10	<8.0	<7.1	7.80	<16.0	<4.1	<0.13	<1.9	14.00
		10-/2023	n/a	n/a															
(13) 1D-4P	d	4-/2023	n/a	n/a	DRY														
		10-/2023	n/a	n/a															
(14) 1D-4S	d	4-/2023	n/a	n/a	<16.0	<16.0	44.00	<1.0	<1.0	<3.0	<1.5	<8.0	<7.1	14.00	<16.0	<4.1	<0.13	2.50	9.20
		10-/2023	n/a	n/a															
(15) PRIMARY	d	4-/2023	n/a	n/a	<16.0	<16.0	55.00	<1.0	<1.0	100.00	17.00	43.00	<7.1	120.00	<16.0	<4.1	0.24	12.00	380.00
		10-/2023	n/a	n/a															
(16) SECONDARY	d	4-/2023	n/a	n/a	<16.0	<16.0	37.00	<1.0	<1.0	<3.0	<1.5	48.00	<7.1	760.00	<16.0	<4.1	0.20	<1.9	150.00
		10-/2023	n/a	n/a															
(17) LEACHATE SUMP	d	4-/2023	n/a	n/a	DRY														
		10-/2023	n/a	n/a															
(18) LEACHATE SUMP	d	4-/2023	n/a	n/a	DRY														
		10-/2023	n/a	n/a															
Field Blank	d	4-/2023	n/a	n/a	<16.0	<16.0	2.00	<1.0	<1.0	<3.0	<1.5	<8.0	<7.1	<2.1	<16.0	<4.1	<0.13	<1.9	<3.7
		10-/2023	n/a	n/a															
Trip Blank	d	4-/2023	n/a	n/a															
		10-/2023	n/a	n/a															

CMCMUA Landfill		NJDEP PERMIT NO. =	NJ0050547		SUMPS 3-20										
					Acetone (ug/l)	Acrylonitrile VOCS (ug/l)	Benzene TVO (ug/l)	Bromochloromethane (ug/l)	Bromodichloromethane (ug/l)	Bromoform (ug/l)	Carbon Disulfide (ug/l)	Carbon Tetrachloride TVO (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	Chloroform TVO (ug/l)
					[67-64-1]	[107-13-1]	[71-43-2]	[74-97-5]	[75-27-4]	[75-25-2]	[75-15-0]	[56-23-5]	[108-90-7]	[75-00-3]	[67-66-3]
(3) IB-P-NORTH	d	4-/2023	n/a	n/a	9.90	<1.6	2.60	<0.20	<0.20	<1.0	<0.30	<0.30	21.00	<0.20	<0.30
		10-/2023	n/a	n/a											
(4) IB-S-NORTH	d	4-/2023	n/a	n/a	16.00	<1.6	2.70	<0.20	<0.20	<1.0	<0.30	<0.30	12.00	<0.20	<0.30
		10-/2023	n/a	n/a											
(5) IB-P-SOUTH	d	4-/2023	n/a	n/a	13.00	<16.0	<3.0	<2.0	<2.0	<10.0	<3.0	<3.0	12.00	<2.0	<3.0
		10-/2023	n/a	n/a											
(6) IB-S-SOUTH	d	4-/2023	n/a	n/a	23.00	<16.0	<3.0	<2.0	<2.0	<10.0	<3.0	<3.0	19.00	<2.0	<3.0
		10-/2023	n/a	n/a											
(7) IA-P1	d	4-/2023	n/a	n/a	11.00	<1.6	0.45	<0.20	<0.20	<1.0	<0.30	<0.30	0.46	<0.20	<0.30
		10-/2023	n/a	n/a											
(8) IA-S-1	d	4-/2023	n/a	n/a	13.00	<16.0	4.40	<2.0	<2.0	<10.0	<3.0	<3.0	18.00	<2.0	<3.0
		10-/2023	n/a	n/a											
(9) IC-P-4	d	4-/2023	n/a	n/a											
		10-/2023	n/a	n/a											
(10) IC-S-4	d	4-/2023	n/a	n/a	5.00	<1.6	0.45	<0.20	<0.20	<1.0	<0.30	<0.30	<0.30	<0.20	<0.30
		10-/2023	n/a	n/a											
(11) IC-P-1	d	4-/2023	n/a	n/a	22.00	<16.0	4.40	<2.0	<2.0	<10.0	<3.0	<3.0	5.50	<2.0	<3.0
		10-/2023	n/a	n/a											
(12) IC-S-1	d	4-/2023	n/a	n/a	2.80	<1.6	<0.30	<0.20	<0.20	<1.0	<0.30	<0.30	<0.30	<0.20	<0.30
		10-/2023	n/a	n/a											
(13) 1D-4P	d	4-/2023	n/a	n/a											
		10-/2023	n/a	n/a											
(14) 1D-4S	d	4-/2023	n/a	n/a	0.99	<1.6	<0.30	<0.20	<0.20	<1.0	<0.30	<0.30	<0.30	<0.20	<0.30
		10-/2023	n/a	n/a											
(15) PRIMARY	d	4-/2023	n/a	n/a	9.50	<16.0	<3.0	<2.0	<2.0	<10.0	<3.0	<3.0	<3.0	<2.0	<3.0
		10-/2023	n/a	n/a											
(16) SECONDARY	d	4-/2023	n/a	n/a	20.00	<16.0	<3.0	<2.0	<2.0	<10.0	<3.0	<3.0	<3.0	<2.0	<3.0
		10-/2023	n/a	n/a											
(17) LEACHATE SUMP	d	4-/2023	n/a	n/a											
		10-/2023	n/a	n/a											
(18) LEACHATE SUMP	d	4-/2023	n/a	n/a											
		10-/2023	n/a	n/a											
Field Blank	d	4-/2023	n/a	n/a	1.50	<1.6	<0.30	<0.20	<0.20	<1.0	<0.30	<0.30	<0.30	<0.20	0.46
		10-/2023	n/a	n/a											
Trip Blank	d	4-/2023	n/a	n/a											
		10-/2023	n/a	n/a											

CMCMUA Landfill		NJDEP PERMIT NO. =	NJ0050547			x	x SUMPS 3-20						
						DBCP	EDB						
					Chlorodibromomethane (ug/l)	1,2-Dibromo-3-Chloropropane (ug/l)	1,2-Dibromoethane (ug/l)	O-Dichlorobenzene (ug/l)	1,4-Dichlorobenzene (ug/l)	Trans-1,4-Dichloro-2-Butane (ug/l)	1,1-Dichloroethane (ug/l)	1,2-Dichloroethane (ug/l)	1,1-Dichloroethylene (ug/l)
					[124-88-1]	[96-12-8]	[106-93-4]	[95-50-1]	[106-46-7]	[110-57-6]	[75-34-3]	[107-06-02]	[75-35-4]
(3) IB-P-NORTH	d	4-/2023	n/a	n/a	<0.20	<10.0	<4.0	0.92	7.50	<6.0	<0.30	<0.30	<0.30
		10-/2023	n/a	n/a									
(4) IB-S-NORTH	d	4-/2023	n/a	n/a	<0.20	<10.0	<4.0	0.50	3.90	<6.0	<0.30	<0.30	<0.30
		10-/2023	n/a	n/a									
(5) IB-P-SOUTH	d	4-/2023	n/a	n/a	<2.0	<10.0	<4.0	<2.0	11.00	<60.0	<3.0	<3.0	<3.0
		10-/2023	n/a	n/a									
(6) IB-S-SOUTH	d	4-/2023	n/a	n/a	<2.0	<10.0	<4.0	<2.0	5.40	<60.0	<3.0	<3.0	<3.0
		10-/2023	n/a	n/a									
(7) IA-P1	d	4-/2023	n/a	n/a	<0.20	<0.50	<0.20	<0.20	0.68	<6.0	<0.30	<0.30	<0.30
		10-/2023	n/a	n/a									
(8) IA-S-1	d	4-/2023	n/a	n/a	<2.0	<10.0	<4.0	<2.0	12.00	<60.0	<3.0	<3.0	<3.0
		10-/2023	n/a	n/a									
(9) IC-P-4	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(10) IC-S-4	d	4-/2023	n/a	n/a	<0.20	<0.50	<0.20	<0.20	<0.30	<6.0	<0.30	<0.30	<0.30
		10-/2023	n/a	n/a									
(11) IC-P-1	d	4-/2023	n/a	n/a	<2.0	<10.0	<4.0	<2.0	15.00	<60.0	<3.0	<3.0	<3.0
		10-/2023	n/a	n/a									
(12) IC-S-1	d	4-/2023	n/a	n/a	<0.20	<0.50	<0.20	<0.20	<0.30	<6.0	<0.30	<0.30	<0.30
		10-/2023	n/a	n/a									
(13) 1D-4P	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(14) 1D-4S	d	4-/2023	n/a	n/a	<0.20	<0.50	<0.20	<0.20	<0.30	<6.0	<0.30	<0.30	<0.30
		10-/2023	n/a	n/a									
(15) PRIMARY	d	4-/2023	n/a	n/a	<2.0	<10.0	<4.0	<2.0	<3.0	<60.0	<3.0	<3.0	<3.0
		10-/2023	n/a	n/a									
(16) SECONDARY	d	4-/2023	n/a	n/a	<2.0	<10.0	<4.0	<2.0	<3.0	<60.0	<3.0	<3.0	<3.0
		10-/2023	n/a	n/a									
(17) LEACHATE SUMP	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(18) LEACHATE SUMP	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
Field Blank	d	4-/2023	n/a	n/a	<0.20	<0.50	<0.20	<0.20	<0.30	<6.0	<0.30	<0.30	<0.30
		10-/2023	n/a	n/a									
Trip Blank	d	4-/2023	n/a	n/a		<0.50	<0.20						
		10-/2023	n/a	n/a									

CMCMUA Landfill		NJDEP PERMIT NO. =	NJ0050547		SUMPS 3-20								
					Cis-1,2-Dichloroethylene (ug/l)	Trans-1,2-Dichloroethylene (ug/l)	1,2-Dichloropropane (ug/l)	Cis-1,3-Dichloropropene (ug/l)	Trans-1,3-Dichloropropene (ug/l)	Ethylbenzene (ug/l)	2-Hexanone (ug/l)	Methyl Bromide (ug/l)	Methyl Chloride (ug/l)
					[156-59-2]	[156-60-5]	[78-87-5]	[10061-01-5]	[10061-02-6]	[100-41-4]	[591-78-6]	[74-83-9]	[74-87-3]
(3) IB-P-NORTH	d	4-/2023	n/a	n/a	<0.30	<0.70	<0.30	<0.20	<0.20	<0.40	<0.85	<0.30	<0.55
		10-/2023	n/a	n/a									
(4) IB-S-NORTH	d	4-/2023	n/a	n/a	<0.30	<0.70	<0.30	<0.20	<0.20	<0.40	<0.85	<0.30	<0.55
		10-/2023	n/a	n/a									
(5) IB-P-SOUTH	d	4-/2023	n/a	n/a	<3.0	<7.0	<3.0	<2.0	<2.0	<4.0	<8.5	<3.0	<5.5
		10-/2023	n/a	n/a									
(6) IB-S-SOUTH	d	4-/2023	n/a	n/a	<3.0	<7.0	<3.0	<2.0	<2.0	<4.0	<8.5	<3.0	<5.5
		10-/2023	n/a	n/a									
(7) IA-P1	d	4-/2023	n/a	n/a	0.30	<0.70	<0.30	<0.20	<0.20	<0.40	<0.85	<0.30	<0.55
		10-/2023	n/a	n/a									
(8) IA-S-1	d	4-/2023	n/a	n/a	<3.0	<7.0	<3.0	<2.0	<2.0	<4.0	<8.5	<3.0	<5.5
		10-/2023	n/a	n/a									
(9) IC-P-4	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(10) IC-S-4	d	4-/2023	n/a	n/a	<0.30	<0.70	<0.30	<0.20	<0.20	<0.40	<0.85	<0.30	<0.55
		10-/2023	n/a	n/a									
(11) IC-P-1	d	4-/2023	n/a	n/a	<3.0	<7.0	<3.0	<2.0	<2.0	<4.0	<8.5	<3.0	<5.5
		10-/2023	n/a	n/a									
(12) IC-S-1	d	4-/2023	n/a	n/a	<0.30	<0.70	<0.30	<0.20	<0.20	<0.40	<0.85	<0.30	<0.55
		10-/2023	n/a	n/a									
(13) 1D-4P	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(14) 1D-4S	d	4-/2023	n/a	n/a	<0.30	<0.70	<0.30	<0.20	<0.20	<0.40	<0.85	<0.30	<0.55
		10-/2023	n/a	n/a									
(15) PRIMARY	d	4-/2023	n/a	n/a	<3.0	<7.0	<3.0	<2.0	<2.0	<4.0	<8.5	<3.0	<5.5
		10-/2023	n/a	n/a									
(16) SECONDARY	d	4-/2023	n/a	n/a	<3.0	<7.0	<3.0	<2.0	<2.0	<4.0	<8.5	<3.0	<5.5
		10-/2023	n/a	n/a									
(17) LEACHATE SUMP	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(18) LEACHATE SUMP	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
Field Blank	d	4-/2023	n/a	n/a	<0.30	<0.70	<0.30	<0.20	<0.20	<0.40	<0.85	<0.30	<0.55
		10-/2023	n/a	n/a									
Trip Blank	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									

CMCMUA Landfill		NJDEP PERMIT NO. =	NJ0050547					SUMPS 3-20						
					Dibromomethane		2-Butanone							
					Methylene Bromide (ug/l)	Methylene Chloride (ug/l)	Methyl Ethyl Ketone (ug/l)	Methyl Iodide (ug/l)	4-Methyl-2-Pentanone (ug/l)	Styrene (ug/l)	1,1,1,2-Tetrachloroethane (ug/l)	1,1,2,2-Tetrachloroethane TVO (ug/l)	Tetrachloroethylene TVO (ug/l)	Toluene (ug/l)
					[74-95-3]	[75-09-2]	[78-93-3]	[74-88-4]	[108-10-1]	[100-42-5]	[630-20-6]	[79-34-5]	[127-18-4]	[108-88-3]
(3) IB-P-NORTH	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20
		10-/2023	n/a	n/a										
(4) IB-S-NORTH	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	5.00	0.21
		10-/2023	n/a	n/a										
(5) IB-P-SOUTH	d	4-/2023	n/a	n/a	<3.0	<3.0	<5.0	<3.0	<5.0	<3.0	<3.0	<3.0	<3.0	<2.0
		10-/2023	n/a	n/a										
(6) IB-S-SOUTH	d	4-/2023	n/a	n/a	<3.0	<3.0	<5.0	<3.0	<5.0	<3.0	<3.0	<3.0	<3.0	<2.0
		10-/2023	n/a	n/a										
(7) IA-P1	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20
		10-/2023	n/a	n/a										
(8) IA-S-1	d	4-/2023	n/a	n/a	<3.0	<3.0	<5.0	<3.0	<5.0	<3.0	<3.0	<3.0	<3.0	<2.0
		10-/2023	n/a	n/a										
(9) IC-P-4	d	4-/2023	n/a	n/a										
		10-/2023	n/a	n/a										
(10) IC-S-4	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	42.00	<0.20
		10-/2023	n/a	n/a										
(11) IC-P-1	d	4-/2023	n/a	n/a	<3.0	<3.0	<5.0	<3.0	<5.0	<3.0	<3.0	<3.0	<3.0	2.30
		10-/2023	n/a	n/a										
(12) IC-S-1	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20
		10-/2023	n/a	n/a										
(13) 1D-4P	d	4-/2023	n/a	n/a										
		10-/2023	n/a	n/a										
(14) 1D-4S	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20
		10-/2023	n/a	n/a										
(15) PRIMARY	d	4-/2023	n/a	n/a	<3.0	<3.0	<5.0	<3.0	<5.0	<3.0	<3.0	<3.0	<3.0	<2.0
		10-/2023	n/a	n/a										
(16) SECONDARY	d	4-/2023	n/a	n/a	<3.0	<3.0	<5.0	<3.0	<5.0	<3.0	<3.0	<3.0	<3.0	<2.0
		10-/2023	n/a	n/a										
(17) LEACHATE SUMP	d	4-/2023	n/a	n/a										
		10-/2023	n/a	n/a										
(18) LEACHATE SUMP	d	4-/2023	n/a	n/a										
		10-/2023	n/a	n/a										
Field Blank	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.50	<0.30	<0.50	<0.30	<0.30	<0.30	<0.30	<0.20
		10-/2023	n/a	n/a										
Trip Blank	d	4-/2023	n/a	n/a										
		10-/2023	n/a	n/a										

CMCMUA Landfill		NJDEP PERMIT NO. =	NJ0050547		SUMPS 3-20				x				
									123TCP				
					1,1,1-Trichloroethane (ug/l)	1,1,2-Trichloroethane TVO (ug/l)	Trichloroethylene TVO (ug/l)	Trichlorfluoromethane (ug/l)	1,2,3-Trichloropropane (ug/l)	Vinyl Acetate (ug/l)	Vinyl Chloride (ug/l)	Xylenes (ug/l)	Nitrogen Ammonia, Dissolved (mg/l)
					[71-55-6]	[79-00-5]	[79-01-6]	[75-69-4]	[96-18-4]	[108-05-4]	[75-01-4]	[1330-20-7]	[n/a]
(3) IB-P-NORTH	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.30	<0.20	<4.0	<2.0	<0.20	0.74	220.00
		10-/2023	n/a	n/a									
(4) IB-S-NORTH	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.30	<0.20	<4.0	<2.0	<0.20	0.43	140.00
		10-/2023	n/a	n/a									
(5) IB-P-SOUTH	d	4-/2023	n/a	n/a	<3.0	<3.0	<3.0	<2.0	<4.0	<20.0	<2.0	4.50	670.00
		10-/2023	n/a	n/a									
(6) IB-S-SOUTH	d	4-/2023	n/a	n/a	<3.0	<3.0	<3.0	<2.0	<4.0	<20.0	<2.0	<4.0	360.00
		10-/2023	n/a	n/a									
(7) IA-P1	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.30	<0.20	<0.20	<2.0	<0.20	<0.40	4.30
		10-/2023	n/a	n/a									
(8) IA-S-1	d	4-/2023	n/a	n/a	<3.0	<3.0	<3.0	<2.0	<4.0	<20.0	<2.0	<4.0	580.00
		10-/2023	n/a	n/a									
(9) IC-P-4	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(10) IC-S-4	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.30	<0.20	<0.20	<2.0	<0.20	<0.40	8.30
		10-/2023	n/a	n/a									
(11) IC-P-1	d	4-/2023	n/a	n/a	<3.0	<3.0	<3.0	<2.0	<4.0	<20.0	<2.0	16.00	1300.00
		10-/2023	n/a	n/a									
(12) IC-S-1	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.30	<0.20	<0.20	<2.0	<0.20	<0.40	14.00
		10-/2023	n/a	n/a									
(13) 1D-4P	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(14) 1D-4S	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.30	<0.20	<0.20	<2.0	<0.20	<0.40	1.80
		10-/2023	n/a	n/a									
(15) PRIMARY	d	4-/2023	n/a	n/a	<3.0	<3.0	<3.0	<2.0	<4.0	<20.0	<2.0	<4.0	26.00
		10-/2023	n/a	n/a									
(16) SECONDARY	d	4-/2023	n/a	n/a	<3.0	<3.0	<3.0	<2.0	<4.0	<20.0	<2.0	<4.0	13.00
		10-/2023	n/a	n/a									
(17) LEACHATE SUMP	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
(18) LEACHATE SUMP	d	4-/2023	n/a	n/a									
		10-/2023	n/a	n/a									
Field Blank	d	4-/2023	n/a	n/a	<0.30	<0.30	<0.30	<0.20	<0.20	<2.0	<0.20	<0.40	<0.050
		10-/2023	n/a	n/a									
Trip Blank	d	4-/2023	n/a	n/a					<0.20				
		10-/2023	n/a	n/a									

CMCMUA Landfill		NJDEP PERMIT NO. =	NJ0050547						SUMPS 3-20
					Nitrogen, Nitrate, Dissolved (mg/l)	TDS (ppm)	Conductivity	pH, Field	Sample Number
					[n/a]	[n/a]	[n/a]	[n/a]	
(3) IB-P-NORTH	d	4-/2023	n/a	n/a	<0.040 H	1500.00	4200.00		630-59801-1
		10-/2023	n/a	n/a					
(4) IB-S-NORTH	d	4-/2023	n/a	n/a	<0.040 H	1000.00	2700.00		630-59801-11
		10-/2023	n/a	n/a					
(5) IB-P-SOUTH	d	4-/2023	n/a	n/a	<0.040 H	4400.00	10000.00		630-59801-12
		10-/2023	n/a	n/a					
(6) IB-S-SOUTH	d	4-/2023	n/a	n/a	<0.040 H	2100.00	6000.00		630-59801-13
		10-/2023	n/a	n/a					
(7) IA-P1	d	4-/2023	n/a	n/a	<0.040 H	460.00	760.00		630-59801-14
		10-/2023	n/a	n/a					
(8) IA-S-1	d	4-/2023	n/a	n/a	<0.040 H	3800.00	9900.00		630-59801-15
		10-/2023	n/a	n/a					
(9) IC-P-4	d	4-/2023	n/a	n/a					630-59801-16
		10-/2023	n/a	n/a					
(10) IC-S-4	d	4-/2023	n/a	n/a	0.21 H	97.00	240.00		630-59801-2
		10-/2023	n/a	n/a					
(11) IC-P-1	d	4-/2023	n/a	n/a	<0.040 H	5300.00	17000.00		630-59801-3
		10-/2023	n/a	n/a					
(12) IC-S-1	d	4-/2023	n/a	n/a	1.9 H	480.00	910.00		630-59801-4
		10-/2023	n/a	n/a					
(13) 1D-4P	d	4-/2023	n/a	n/a					630-59801-6
		10-/2023	n/a	n/a					
(14) 1D-4S	d	4-/2023	n/a	n/a	0.91 H	520.00	970.00		630-59801-6
		10-/2023	n/a	n/a					
(15) PRIMARY	d	4-/2023	n/a	n/a	7.8 H	5100.00	8100.00		630-59801-7
		10-/2023	n/a	n/a					
(16) SECONDARY	d	4-/2023	n/a	n/a	11.00 H	1600.00	2700.00		630-59801-8
		10-/2023	n/a	n/a					
(17) LEACHATE SUMP	d	4-/2023	n/a	n/a					630-59801-9
		10-/2023	n/a	n/a					
(18) LEACHATE SUMP	d	4-/2023	n/a	n/a					630-59801-10
		10-/2023	n/a	n/a					
Field Blank	d	4-/2023	n/a	n/a	<0.040 H	<12.0	<1.7		630-5981-17
		10-/2023	n/a	n/a					
Trip Blank	d	4-/2023	n/a	n/a					630-59801-18
		10-/2023	n/a	n/a					